

# Program Planning Guide

## 2024-2025

### Class of 2028 & Beyond



Olathe Public Schools • USD #233  
[www.olatheschools.org](http://www.olatheschools.org)



## Student Guiding Principles

### Honesty

Truthfulness to oneself and others in both words and actions



### Respect

Treating others as you wish to be treated

### Responsibility

Doing what you're supposed to do when it needs to be done, even when no one is watching

### Trustworthiness

Exhibiting dependable behaviors

Students Prepared for *Their* Future

## Parent/Patron Guiding Principles

### Positive Role Models

Setting a good example in words and actions



### Effective Communicators

Actively listening, seeking to understand and proactively interacting with children and other adults

### Respect For All

Treating all others as you wish to be treated

### Advocates For Education

Demonstrating the importance of learning and encouraging academic and personal excellence

### Active Involvement

Making children a priority by being informed and participating in all aspects of the lives of our children

Students Prepared for *Their* Future

## Staff/Board Guiding Principles



- Children First
- Respect for All
- Teamwork
- Excellence & Quality
- Commitment to Individual Needs

Students Prepared for *Their* Future

Olathe Public Schools is a partnership of staff, students, parents, and the community.

## Our Vision

Students prepared for *their* future!

## Our Mission

To provide a safe, positive environment where all students acquire knowledge and skills to be productive citizens.

# Students Prepared for *Their* Future

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## Contact Information

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**Disclaimer**

The Olathe Public Schools makes every effort to ensure that the information in this Program Planning Guide is informative and accurate.

Enrollment patterns and budget decisions may affect the availability of courses. Changes in policies, new statutes, or other factors can result in incorrect or incomplete information.

This Program Planning Guide should in no way be seen as a contract, but as a guideline for students as they move through their high school years.

Please check the website <https://www.olatheschools.org/Page/2483> for the latest changes to the High School Program Planning Guide.

# INTRODUCTION

Welcome to the Olathe Public Schools District's Program Planning Guide. This booklet offers a listing and a description of the many courses offered in the Olathe high schools. Planning a high school program of study is a serious matter. Not every course is offered in every high school. Also, not every course will be offered each year due to the level of student interest and the availability of staff to teach the subject. Requirements for post secondary options and programs have been included to assist planning.

The purpose of this booklet is to assist in two areas:

1. Provide the information necessary to plan a high school course of study. This plan of study should consider all of the things that **MUST** be done to balance one's wants and to connect to future career goals.
2. Provide current information regarding course options available during the coming school year. With a plan, these courses should help achieve desired outcomes from high school.

The course selections made now can have a great influence on postsecondary plans. Students and parents are encouraged to read carefully the information contained in this guide. Do not hesitate to ask questions of a school counselor or a teacher.


## THINGS TO CONSIDER

Before making course selections, be sure to read (or reread) all of the sections that apply.

- Remember that it is the student's responsibility to ensure that all requirements are met according to district's guidelines.
- If anticipating attending college and/or playing college sports, be sure to read the sections pertaining to the Kansas Qualified Admissions Requirements and NCAA Eligibility.

Students are encouraged to use their Individual Plan of Study to guide high school experiences and support future planning. Helpful information can be obtained from looking at:

- The career interest and skills assessments taken through the XELLO software at <https://xello.world/en/>
- State Assessment reports
- Nationally standardized tests such as the MAP, ACT, SAT, or PSAT



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for *Their* Future**

**Olathe Public Schools**

### Requirements for the Classes of 2028 and beyond

1. The minimum requirement for an Olathe high school diploma is 24 credits.
  - a. Definition: Depending on the course and nature of course delivery, units of credit will be awarded in increments of one full (1.0) or one-half (.5) credit.
  - b. Twenty-four (24.0) credits required for graduation include:
    - 1) Four (4.0) credits in English
    - 2) Three (3.0) credits in Mathematics.
    - 3) Three (3.0) credits in Science.

Required credits are

      - a.) Life Science (1.0 credit)
      - b.) Physical Science (1.0 credit)
      - c.) Science elective (1.0 credit)
    - 4) Three (3) credits in Social Studies.

Required credits are

      - a.) World History or Honors World History (1.0 credit - grade 9)
      - b.) U.S. History or AP U.S. History (1.0 credit - grade 11)
      - c.) U.S. Government or AP U.S. Government (0.5 credit - grade 12)
      - d.) Social Studies elective (0.5 credit - all grades)
    - 5) One-half (0.5) credit in Communications
    - 6) One-half (0.5) credit in Financial Literacy
    - 7) One (1.0) credit in Fine/Performing Arts
    - 8) One-half (0.5) credit in Health
    - 9) One (1.0) credit in Language Applications
    - 10) One-half (0.5) credit in Life Studies
    - 11) One-half (0.5) credit in Physical Education
    - 12) One (1.0) credit in STEM
    - 13) Five and one-half (5.5) Individual Focus credits
2. Students must meet Olathe graduation requirements to be eligible to participate in the graduation exercises. **EXCEPTION**: Seniors who transfer from other school districts and who have been on track to meet graduation requirements in their former school, but cannot meet the twenty-four (24) Olathe unit requirement, will be allowed to graduate with their class. The transfer student must meet the minimum requirements of the Kansas Department of Education.
3. Beginning in the 2024-25 school year - Students in 8th grade who enroll in Spanish I or French I will earn high school credit. Those courses will be included on their high school transcript and cannot be removed. Credits will be added after the start of the student's ninth grade year. Any other credit earned after their eighth grade year will be counted as senior high credit and will be on the high school transcript. Example: Driver Education.
4. The weighted grading system outlined on page 9 will be used to determine all Olathe student honors and distinctions.

# KANSAS QUALIFIED ADMISSIONS

## Quick Facts

### What are Qualified Admissions?

Qualified Admissions (QA) are a set of standards used by the six state universities to review applicants for undergraduate admission. The universities that use QA are Emporia State University, Fort Hays State University, Kansas State University, Pittsburg State University, the University of Kansas, and Wichita State University. These standards are set by the Kansas Board of Regents, the governing body for the state universities. It is important to note that our Olathe Graduation Requirements must be met to graduate from Olathe Public Schools. Please consult your student's school counselor with any questions.

### What are the Qualified Admissions standards?



## Qualified Admissions

The six state universities in Kansas—Emporia State University, Fort Hays State University, Kansas State University, Pittsburg State University, The University of Kansas, and Wichita State University—use the standards below, set by the Kansas Board of Regents, to review applicants for undergraduate admission.

### ACCREDITED HIGH SCHOOL

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

#### ESU, PSU, FHSU, & WSU:

- Cumulative High School GPA 2.25+ or ACT 21+ (SAT 1060)\*

#### K-State:

- Cumulative High School GPA 3.25+ or ACT 21+ (SAT 1060)\*

#### KU:

- Cumulative High School GPA 3.25+  
**OR** Cumulative GPA 2.0+ and ACT 21+ (SAT 1060)\*

#### ALL Institutions Require:

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

**KANSAS SCHOLARS CURRICULUM IS RECOMMENDED BUT NOT REQUIRED:** To best prepare for the rigor of college-level courses, the Kansas Scholars curriculum is recommended.

One unit is equivalent to one year, or two semesters:



**English**  
4 units



**Math**  
4 units  
1 unit of each:  
Algebra I, Geometry,  
Algebra II  
1 unit: Advanced Math  
See [KS Scholars page](#)  
For Math course list



**Social Science**  
3 units  
1 unit U.S. History  
.5 unit U.S. Gov  
.5 unit World History  
1 unit: Social Science course  
See [KS Scholars Page](#) for  
Social Science course list



**Science**  
3 units  
1 unit of each:  
Biology, Chemistry, &  
Physics



**Foreign Language**  
2 units of the same  
language

### [Kansas Scholars Page](#)

**KANSAS SCHOLARS Program:** More information about the Kansas Scholars Scholarship & Curriculum can be found [here](#) (pdf).

### HOMESCHOOL & UNACCREDITED HIGH SCHOOL

Freshman applicants, under the age of 21, who are homeschooled or graduate from an unaccredited high school will be guaranteed admission to the six state universities by achieving an ACT score equivalent to those outlined above, per each university. If you enroll in college courses while in high school, it is also required that you achieve a 2.0 GPA or higher in those courses.

*\*If you do not meet the qualified admission requirements, you are still encouraged to apply. Your application will be reviewed individually. Contact the university admissions office for more information.*

*This document provides a summary overview of admission requirements at state universities and is not a substitute for or to be used in lieu of the actual detailed admissions requirements, which can be found at: [www.kansasregents.org/qualified\\_admissions\\_rules\\_regulations](http://www.kansasregents.org/qualified_admissions_rules_regulations).*

December 2022

**For more information about Qualified Admissions, visit Kansas Board of Regents**

<https://kansasregents.org/students/admissions>

# KANSAS SCHOLAR CURRICULUM & STATE SCHOLAR

## Quick Facts

### What is the Kansas Scholars Curriculum?

The Kansas Scholars Curriculum is one of the requirements Kansas residents must meet in order to receive State Scholar designation during the Senior year. This curriculum is NOT the same as the Qualified Admissions Curriculum.

### What are the other requirements to become a State Scholar?

- Students must have taken the ACT between April of the sophomore year and December of the senior year.
- Students must be a Kansas resident.
- Students must have their curriculum and 7th semester GPA certified by the high school.

### What is the benefit of completing the Kansas Scholars Curriculum?

Students who complete the curriculum and meet the other requirements, may be designated as State Scholars, which makes them eligible to receive the Kansas State Scholarship as provided by the Kansas Legislature.

*The academic profile of recent scholars include an average ACT of 29 and an average GPA of 3.92.*

State Scholars may receive up to \$1,000 annually for up to four undergraduate years (five, if enrolled in a designated five-year program) based on financial need and the availability of State funds.

### How is financial need determined?

Financial need is measured by the using data submitted on the FAFSA.

*For more information about the Kansas Scholars Curriculum or State Scholar designation, (785) 430-4300 or scholars@ksbor.org.*

Kansas Scholars Curriculum	
English	<b>4 units</b>
Science	<b>3 units</b> 1 unit of each: <ul style="list-style-type: none"> <li>• Biology</li> <li>• Chemistry</li> <li>• Physics</li> </ul> <i>Each of which include an average of one laboratory period a week. Applied/technical courses may not substitute for a unit of natural science credit. A fourth year of science is recommended.</i>
Math	<b>4 units</b> 1 unit of each: <ul style="list-style-type: none"> <li>• Algebra 1*</li> <li>• Algebra 2 or Honors Algebra 2</li> <li>• Geometry or Honors Geometry</li> <li>• One unit of Advanced Math with Algebra 2 or Honors Algebra 2 as preequisite.</li> </ul> <i>*Algebra I taken in the 8th Grade is acceptable; the student would then only need three years of math in high school..</i>
Social Studies	<b>3 units</b> <ul style="list-style-type: none"> <li>• 1 unit of US History</li> <li>• 0.5 unit of US Government</li> <li>• 0.5 unit of World History</li> <li>• 1 unit Social Studies course</li> </ul>
World Language	<b>2 units</b> of one language.

### Admissions Info:

Contact the Office of Admissions at any Regents university for additional admissions information.

Emporia State University  
<http://www.emporia.edu>

University of Kansas  
<http://www.ku.edu>

Pittsburg State University  
<http://www.pittstate.edu>

Kansas State University  
<http://www.k-state.edu>

Fort Hays State University  
<http://www.fhsu.edu>

Wichita State University  
<http://www.wichita.edu>

# DUAL ENROLLMENT GUIDELINES:

## Advanced Placement (AP) Information:

Advanced Placement (AP) is an internationally recognized standard of academic excellence that provides the following benefits to students:

- AP can enhance a student's opportunity for scholarships and career possibilities.
- AP can enhance a student's opportunity to receive admission into recognized universities and post-secondary programs.
- AP can reduce college costs and the time required to obtain a degree by providing post-secondary credit for courses and examinations completed successfully in high school. AP exams are given in May and scored by the Educational Testing Service. Students are encouraged to take AP exams to demonstrate successful AP course completion.

**Note:** Honors coursework provides a critical alignment with AP course success. AP exams are strongly encouraged. Each college or university determines which AP examination/score will be accepted.

## College Now Information:

10th-12th graders have the opportunity to take academic courses in high school which have been identified by the school district and Johnson County Community College as College-Equivalent Courses (College Now). All College Now students must have attained required ACT scores or JCCC Placement Exam scores to enroll for JCCC credit. Upon payment of specified tuition and fees and successful completion of a course, college credit can be earned. Only students enrolled in designated college equivalency courses can apply for this college credit option. Course availability may vary by high school.

Tuition charges for College Now courses will not exceed the amount charged for students enrolling in similar JCCC campus-based courses. No additional charges beyond those authorized for high school rental fees and materials used for classroom activities will be made. Courses which qualify for Excel in CTE have waived tuition for high school students who meet JCCC Kansas residency requirements for enrollment in any tiered career technical course. For more information about Excel in CTE courses offered at JCCC, please visit <https://www.jccc.edu/admissions/early-college/high-school-concurrent-enrollment/sb-155.html>

College Now courses listed below may not be offered for dual credit in every high school. Check your high school's College Now schedules for availability.

Dual credit courses may be found at [www.jccc.edu/admissions/early-college/high-school-concurrent-enrollment/index.html](http://www.jccc.edu/admissions/early-college/high-school-concurrent-enrollment/index.html) or as follows:

- |   |   |   |                                   |
|---|---|---|-----------------------------------|
| • AC Electronics                        | • AP French V                                 | • College Biology                         | • Home Health Aide (HHA)          |
| • Animation I, II, III & IV             | • AP Music Theory                             | • College Chemistry                       | • Horticulture I & II *           |
| • AP Biology                            | • AP Psychology                               | • DC Electronics                          | *(same school year)               |
| • AP Calculus AB                        | • AP Spanish V                                | • Digital Electronics                     | • Introduction to Computer Coding |
| • AP Calculus BC                        | • AP Statistics                               | • Emergency Medical Services (EMS)        | • Introduction to Healthcare      |
| • AP Chemistry                          | • AP United States Government                 | • Fire Science I                          | • Law Enforcement I               |
| • AP Computer Science A                 | • AP United States History                    | • Fire Science II                         | • Law Enforcement II              |
| • AP Computer Science Principles        | • AP/College Physics I                        | • Foundation of Electronics               | • Medical Terminology             |
| • AP English Literature and Composition | • Auto Technology                             | • French IV                               | • Pre-Calculus                    |
| • AP Environmental Science              | • Basic Life Support for Healthcare Providers | • German III                              | • Spanish IV                      |
| • AP European History                   | • Certified Nurse Assistant (CNA)             | • German IV                               | • Welding Technology I            |
|   | • College Accounting                          | • Hazardous Materials for First Responder | • Zoology                         |
|   | • College Algebra                             |   |                                   |

## Quick Step

College credit also is available through the JCCC Quick Step program. Enroll in classes held on the JCCC campus or at one of our outreach locations, or take a class online. Quick Step is an exciting opportunity for highly committed and motivated high school students to excel. With Quick Step, you may be eligible for "on-campus concurrent enrollment." Even if you're taking a Quick Step class for college credit, your local school district may allow you to earn high school credit for that same course. Students interested in the Quick Step program should contact their counselor for enrollment procedures and Quick Step information. Specific guidelines apply to this dual credit procedure.

<https://www.jccc.edu/admissions/early-college/quick-step/index.html>



# GRADING GUIDELINES:

## Grade Point Average

The Olathe Public Schools will award credit to all grades of A, B, C, and D. A grade of F will not be awarded credit. Grades are assigned the following numerical values:

- A=4
- B=3
- C=2
- D=1
- F=0

Those numerical values are used to determine a student's unweighted grade point average. A letter grade with a + or a - symbol will receive the same numerical value as a grade without a symbol.

A student's unweighted GPA is figured by assigning a numerical value to each semester grade (quarter grades are not used to determine a student's GPA) and dividing that number by the number of classes taken.

## Weighted Grades

Weighted courses represent the most rigorous learning standards and content requiring the highest level of student performance and time commitment. The weighted grading system is used to determine academic student honors and distinctions.

The weighted grade formula is figured by using the standard grade point average and adding weighted value. The weighted value is computed by taking the number of weighted courses and dividing it by the number of semesters multiplied by seven:  $\text{Weighted GPA} = (\text{GPA}) + (\# \text{ of Weighted Courses with grades of A, B, or C}) / 7(\# \text{ of semesters})$ .

A weighted grade can be attained for the courses below by achieving class grades of A, B, or C. All courses on the list below have an equal weighted grade value:

- Honors Algebra II
- Adv. Biotechnology: Cellular & Molecular II
- AP Biology
- AP Calculus AB
- AP Calculus BC
- AP Chemistry
- AP Computer Science A
- AP Computer Science Principles
- AP English Language
- AP English Literature & Composition
- AP Environmental Science
- AP European History
- AP French V
- AP Music Theory
- AP Physics II
- AP Physics C
- AP Psychology
- AP Spanish V
- AP Statistics
- AP Studio Art: 2-D Design
- AP Studio Art: 3-D Design
- AP Studio Art: Drawing
- AP United States History
- AP US Government & Politics
- AP/College Physics I
- German IV
- Honors Advanced Debate
- Japanese IV
- Linear Algebra
- Multivariable Calculus
- Honors Biology
- Honors Chemistry
- Honors English 9
- Honors English 10
- Honors Geography
- Honors Geometry
- Honors Modern World History
- Pre-Calculus

*Note to students transferring from other districts: Olathe provides weighted credit only for advanced courses so designated by the Olathe weighting system.*

# REQUIREMENTS AT A GLANCE

Subject Area	Olathe Graduation Credits	KS Honor Scholar	NCAA
English	4	4 credits: regular or AP	4 credits: regular or AP
Math	3	4 credits: Algebra I or higher	3 credits: Algebra I or higher
Science	3	3 Credits: Biology, Chemistry & Physics 4th credit highly recommended	2 credits: NCAA approved science classes
Social Studies	3	3 credits	2 credits: approved Social Studies
World Language	None Required	2 credits: Same language req. (grade 9-12)	Will count towards 16 core credits
Other Courses	See Graduation Audit	No additional required	Additional approved NCAA credits to equal 16

### KSHSAA Eligibility:

Students taking Guided Study can earn a maximum of one credit toward their 5 "new subjects of unit weight" during their high school career. Teacher aide and credit recovery courses do not count as a "new subject of unit weight" toward KSHSAA eligibility.

### Individual Focus: 6 Credits Minimum

The Individual focus credit category is identified for individual academic and career plan choices beyond courses required for graduation. Students must obtain 5.5 CREDITS MINIMUM of INDIVIDUAL FOCUS courses. These courses may be from within specific academic disciplines such as music or science, or may be a combination of courses to fit future plans such as a mix of courses in art, technology, Life Studies, business, etc.

## KNOW THE RULES

### Core Courses

- **NCAA Division I requires 16 core courses.** This rule applies to any student first entering any Division I college or university. See the chart below for the breakdown of this 16 core-course requirement.
- **NCAA Division II requires 16 core courses.** See the breakdown of core-course requirements below.

### Test Scores

- In January 2023, NCAA Divisions I and II adopted legislation to remove standardized test scores from initial-eligibility requirements. Students are encouraged to check with the NCAA school they plan to attend regarding whether standardized test scores are necessary for admission or scholarship requirements.

### Grade-Point Average

- Only core courses are used in the calculation of the grade-point average.
- The minimum core grade-point average is 2.30 (DI) and 2.20 (DII) to meet academic standards.
- **Be sure** to look at your high school’s list of NCAA-approved core courses on the Eligibility Center’s Web site to make certain that the courses being taken have been approved as core courses. The Web site is: <https://web3.ncaa.org/hsportal/exec/hsAction?hsActionSubmit=searchHighSchool>.

<b>DIVISION I 16 Core-Course Rule</b>
4 years of English.
3 years of mathematics (Algebra I or higher).
2 years of natural/physical science (1 year of lab if offered by high school).
1 years of additional English, mathematics or natural/physical science.
2 years of social studies.
4 years of additional courses (from any area above, world language or nondoctrinal religion/philosophy).

<b>DIVISION II 16 Core-Course Rule</b>
3 years of English.
2 years of mathematics (Algebra I or higher).
2 years of natural/physical science (1 year of lab if offered by high school).
3 years of additional English, mathematics or natural/physical science.
2 years of social studies.
4 years of additional courses (from any area above, world language or nondoctrinal religion/philosophy).

Further information about NCAA rules, eligibility, registration and four-year student athlete plans is available at [www.ncaa.org](http://www.ncaa.org) and [www.eligibilitycenter.org](http://www.eligibilitycenter.org)

# OLATHE GRADUATION REQUIREMENTS

## Class of 2028 and beyond - 24 Credits Total

### Communications - .5 Credit

Adv. Debate  
 Argumentation and Debate  
 Business Communications  
 Career Connections  
 Forensics: Interscholastic Speech & Drama  
 Honors Advanced Debate  
 Interpersonal Skills  
 Intro to Journalism  
 Marketing Workplace Experience  
 Media & Public Relations: Newspaper  
 Novice Debate  
 Public Speaking

All Academy Capstone courses will fulfill the Communications requirement

\*\*Additional courses will be added as further guidance is provided from KSDE.

### Applied Language - 1 Credit

3-D Animation Design  
 3-D Modeling & Dimensional Design  
 Acting I & II  
 Advanced Animation Studio  
 Adv. Creative Writing   
 Adv. Debate  
 Adv. Digital Advertising & Design  
 Adv. Repertory Theatre  
 Animation  
 Animation I, II, III, IV   
 Argumentation and Debate  
 AVID 9, 10, 11, 12  
 Black American History   
 Creative Writing   
 Creative Writing:Literary Magazine  
 Digital Design & Graphics  
 Digital Media Technology:Yearbook  
 DS Cross-Cultural Expeditions   
 e-Communication Senior Capstone ALL   
 Editorial Leadership Design & Production  
 Forensics: Interscholastic Speech & Drama  
 Foundations of e-Communication

Graphic Design I & II  
 Graphic Design III & IV   
 Honors Advanced Debate   
 History of Film   
 Interpersonal Skills  
 Intro to Journalism  
 Intro to Psychology   
 Media & Public Relations: Newspaper  
 Novice Debate   
 Peer Mentor for Interpersonal Skills  
 Photojournalism  
 Reading 9, 10, 11, 12  
 Repertory Theatre  
 Sports Information Directors   
 Theatre Production II  
 Video Production I & II  
 Web Design I, II, III & IV  
 Web & Digital Comm. Project Mgmt  
 Women's Studies   
 AP French V   
 AP Spanish V

American Sign Language I, II   
 French I, II, III, IV   
 German I, II, III   
 German IV   
 Japanese I, II, III   
 Japanese IV   
 Spanish I, II, III, IV   
 Spanish for Heritage Speakers I, II, III

#### KEY- For pages 12 & 13

- Available eLearning
- Olathe Adv. Technical Center Course
- NCAA Approved Courses
- Weighted Grade Credit
- 21st Century Academy Course

### Financial Literacy - 5. Credit

Financial Literacy

### Physical Education - 5. Credit

P.E. Concepts   
 Cheerleading 9  
 Dance Team 9  
 Public Safety Physical Ed

### Health - 5. Credit

Health Education

### Fine Arts: Visual Arts OR Performing Arts - 1 Credit

#### VISUAL ARTS

3-D Animation Design  
 3-D Modeling & Dimensional Design  
 Advanced Animation Studio  
 Adv. Ceramics  
 Adv. Darkroom Photography   
 Adv. Digital Advertising & Design  
 Adv. Digital Photography  
 Adv. Studio Art II  
 Animation  
 Animation I, II, III, IV   
 AP Studio Art: 2-D Design   
 AP Studio Art: 3-D Design   
 AP Studio Art: Drawing   
 Art History   
 Basic Darkroom Photography   
 Basic Digital Photography

Ceramics  
 Digital Design & Graphics  
 Digital Film  
 Drawing I-IV  
 e-Communication Senior Capstone I & II-Graphic Design   
 Fine & Performing Arts Sr Ind Study  
 Foundations of e-Communication   
 Graphic Design I & II  
 Graphic Design III & IV   
 History of Film   
 Introduction to Design II   
 Jewelry/Metals  
 Painting  
 Product Design Engineering   
 Sculpture

#### PERFORMING ARTS

Acting I & II  
 Adv. Choir  
 Adv. Debate  
 Adv. Orchestra  
 Adv. Repertory Theatre  
 AP Music Theory   
 Argumentation and Debate  
 Concert Band  
 Concert Choir  
 Concert Orchestra  
 Dance Team  
 Fine and Performing Arts Senior Independent Study  
 Forensics: Interscholastic Speech & Drama  
 Freshman Orchestra  
 Honors Advanced Debate

History of Film   
 Intermediate Choir  
 Jazz Band  
 Marching Band  
 Novice Debate   
 Repertory Theatre  
 Symphonic Band  
 Technical Theatre I & II  
 Theatre Production I  
 Theatre Production II  
 Wind Ensemble

### English - 4 Credits

#### Freshman Year

English 9   
 Honors English 9

#### Sophomore Year

English 10   
 Honors English 10

#### Junior Year

AP Eng Language & Comp   
 English 11: Career Prep  
 English 11: College Prep

#### Senior Year

AP Eng Lit & Comp   
 English 12: Career Prep  
 English 12: College Prep

#### English Language Learners

English Language Learners I  
 English Language Learners II  
 English Language Learners III

### Math - 3 Credits

#### Algebra I

Algebra II   
 Algebra III   
 AP Calculus AB   
 AP Calculus BC

#### Applied Algebra I

Applied Geometry  
 AP Statistics   
 College Algebra   
 Geometry

#### Honors Geometry

Honors Algebra II   
 Pre-Calculus   
 Intermediate Algebra  
 Linear Algebra

#### Multivariable Calculus

### Social Studies - 3 Credits (World History 1.0, U.S. History 1.0, American Government .5, social studies elective .5)

#### Freshman Year - World History 1.0

Modern World History   
 Honors Modern World History

#### Junior Year - U.S. History 1.0

AP U.S. History   
 U.S. History

#### Senior Year - U.S. Government .5

AP U.S. Government and Politics   
 U.S. Government

#### Elective - Social Studies .5

AP European History   
 AP Psychology

#### Black American History

Business Economics  
 Contemporary Issues   
 DS Cross-Cultural Expeditions   
 DS Senior Capstone   
 DS Symposium   
 Intro to Psychology

#### Honors World Geography

Human Geography   
 Sociology   
 Sports Psychology  
 Women's Studies

Courses that count in more than one category are printed in red. A student may not use the same course to count in more than one category.

## Science - 3 Credits (Life Science 1.0, Physical Science 1.0, additional Science 1.0)

### LIFE SCIENCE

Adv. Biotechnology: Cellular & Molecular I <sup>21</sup>

Adv. Biotechnology: Cellular & Molecular II <sup>21</sup>

Anatomy & Physiology

Animal Health Investigations <sup>21</sup>

Animal Science <sup>21</sup>

Animal Science Year 1 & 2

AP Biology

AP Environ. Science

Applied Biology

Aquatic Methods <sup>21</sup>

BioMedical Engineering I <sup>21</sup>

BioMedical Engineering II <sup>21</sup>

BioMedical Engineering Senior Capstone <sup>21</sup>

Biology

College Biology

Certified Nurse Assistant (CNA)

ELL Science Foundations

Environmental Conservation <sup>21</sup>

Forensic Science <sup>21</sup>

Genetic Applications <sup>21</sup>

Genetics & Biotech I & II

Honors Biology

Horticulture I & II

Intro to BioMedical Engineering <sup>21</sup>

Introduction to Healthcare

Marine Biology <sup>21</sup>

Medical Professions Investigations <sup>21</sup>

Medical Professions Senior Capstone <sup>21</sup>

Microbiology <sup>21</sup>

Sports Medicine II <sup>21</sup>

Student Naturalist

Sustainable Resource Management <sup>21</sup>

Wildlife Biology <sup>21</sup>

Zoology <sup>21</sup>

### PHYSICAL SCIENCE

Adv. Geoscience <sup>21</sup>

AP Chemistry

AP College Physics I

AP Physics II

AP Physics C <sup>21</sup>

Astronomy

Chemistry

College Chemistry

Earth Science

ELL Science Foundations

Energy, Power & Society <sup>21</sup>

Energy Industry Fundamentals <sup>21</sup>

Geoscience Applications <sup>21</sup>

Geoscience Investigations <sup>21</sup>

Geoscience Senior Capstone <sup>21</sup>

Honors Chemistry

Investigations in Green Tech-Energy <sup>21</sup>

Materials Science in Engineering <sup>21</sup>

Meteorology <sup>21</sup>

Oceanography <sup>21</sup>

Physical Science

Physics

## STEM - 1 Credit

3-D Animation Design

3-D Modeling & Dimensional Design

AC Electronics

Accounting II

Advanced Animation Studio

Advanced Digital Advertising & Design

Advanced Digital Photography

Advanced Engineering/CAD III <sup>21</sup>

Advanced Studies in Design <sup>21</sup>

Animation

AP Computer Science A <sup>21</sup>

AP Computer Science Principles <sup>21</sup>

Architecture Design I & II

Auto Collision

Auto Technology

Aviation Fundamentals

Basic Digital Photography

Banking and Finance

Business & Fin. Senior Capstone I & II <sup>21</sup>

Career Connections

Civic Leadership Applications ALL <sup>21</sup> <sup>21</sup>

Civic Leadership Fundamentals ALL <sup>21</sup>

College Accounting <sup>21</sup>

Commercial Design <sup>21</sup>

Community Connections

Computer Science Senior Capstone <sup>21</sup>

Construction Trades Year 1 & 2

Culinary Arts

Cybersecurity <sup>21</sup>

DC Electronics

Design & Development <sup>21</sup>

Design & Eng. Workplace Experience <sup>21</sup>

Design Senior Capstone <sup>21</sup>

Digital Design & Graphics

Digital Electronics

Digital Media Technology:Yearbook

DS Cross-Cultural Expeditions <sup>21</sup>

DS Senior Capstone ALL <sup>21</sup>

DS Symposium <sup>21</sup>

e-Communication Senior Capstones ALL <sup>21</sup>

Editorial Leadership Design & Production

Engineering Drafting/CAD I & II

Engineering Senior Capstone <sup>21</sup>

FAID Studio

Fire Science I & II <sup>21</sup>

Foundations of e-Communication <sup>21</sup>

Foundation of Electronics

Future Educators Senior Capstone I <sup>21</sup>

Graphic Design I & II

Graphic Design III & IV <sup>21</sup>

Green Tech Senior Capstones ALL <sup>21</sup>

Hand & Power Tools

Healthcare Workplace Experience

Home Health Aide-HHA

Innovations in Education <sup>21</sup>

Intro to Computer Coding

Introduction to Design I/II <sup>21</sup>

Intro to Engineering <sup>21</sup>

Introduction to Technology Education

Investing <sup>21</sup>

Law Enforcement II <sup>21</sup>

Marketing Applications

Media & Public Relations: Newspaper

Pharmacy Technician

Phlebotomy Technician

Photojournalism

Principles of Applied Engineering <sup>21</sup>

Principles of Coaching & Leadership II <sup>21</sup>

Product Design Engineering <sup>21</sup>

Production Design Principles I & II

Public Safety Senior Capstone <sup>21</sup>

Research & Design for Architecture I & II

Sports Information Directors <sup>21</sup>

Sports Medicine Senior Capstone <sup>21</sup>

Teaching as a Career <sup>21</sup>

Theatre Production I

Video Production I & II

Web Design I, II, III & IV <sup>21</sup>

Web & Digital Communications Project Mgmt

Welding Technology

Woodworking & Design I & II

Work Experience in Aviation

**Advanced Math courses:**  
All AP & Dual-enrollment Math courses  
Linear Algebra  
Multivariable Calculus

**Advanced Science courses:**  
All AP & Dual-enrollment Science courses  
Adv. Biotech: Cellular & Molecular Bio I & II <sup>21</sup>

Advanced Geoscience <sup>21</sup>

Animal Science <sup>21</sup>

Animal Science Year 2

BioMedical Engineering I & II <sup>21</sup>

Energy Industry Fundamentals <sup>21</sup>

Energy, Power & Society <sup>21</sup>

Genetics & Biotech I & II

Materials Science in Engineering <sup>21</sup>

Plant and Animal Science <sup>21</sup>

Sports Medicine II <sup>21</sup>

Zoology <sup>21</sup>

## Life Studies - .5 Credit

3-D Animation Design

3-D Modeling and Dimensional Design

AC Electronics

Accounting I

Accounting II

Advanced Animation Studio

Adv. Biotech: Cell & Molecular I <sup>21</sup>

Adv. Biotech: Cell & Molec. II <sup>21</sup>

Advanced Darkroom Photography <sup>21</sup>

Advanced Digital Advertising & Design

Advanced Engineering/CAD III <sup>21</sup>

Advanced Digital Photography

Advanced Studies in Design <sup>21</sup>

Agricultural Leadership & Communications

Animal Health Investigations <sup>21</sup>

Animal Science Year 1 & 2

Animation

Animation I, II, III, IV <sup>21</sup>

Apparel Production I & II

AP Psychology

Aquatic Methods <sup>21</sup>

Architecture Design I & II

Auto Collision

Auto Technology

Aviation Fundamentals

AVID 9, 10, 11, 12

Baking Food Science

Baking & Pastry I & II

Banking and Finance <sup>21</sup>

Basic Darkroom Photography <sup>21</sup>

Basic Digital Photograph

Basic Life Support for Healthcare Providers

BioMedical Engineering Senior Capstone <sup>21</sup>

Business Communications

Business Economics

Business Essentials

Business Essentials II <sup>21</sup>

Business Finance Senior Capstone I&II <sup>21</sup>

Business Law

Business Management

Care of Athletes <sup>21</sup>

Career Connections

Certified Nurse Assistant (CNA)

Civic Leadership Applications-ALL <sup>21</sup>

Civic Leadership Fundamentals-ALL <sup>21</sup>

Civic Leadership Academy Senior Capstone- Youth Court <sup>21</sup>

College Accounting <sup>21</sup>

College Readiness Skills

Commercial Design <sup>21</sup>

Community Connections

Computer Science Senior Capstone <sup>21</sup>

Construction Trades Year 1 & 2

Culinary Essentials

Culinary Arts

DC Electronics

Design & Development <sup>21</sup>

Design & Eng. Workplace Experience <sup>21</sup>

Design Senior Capstone <sup>21</sup>

Digital Electronics

Digital Media Technology:Yearbook

Driver's Education

DS Senior Capstone ALL <sup>21</sup>

DS Symposium <sup>21</sup>

e-Communication Senior Capstone ALL <sup>21</sup>

Editorial Leadership Design & Production

Emergency Medical Services (EMS)

Engineering Senior Capstone <sup>21</sup>

Engineering Drafting/CAD I & II

Entrepreneurship

Essentials of Fashion, Apparel, Int Des

Family Studies

Fashion Trends I & II

FAID Studio

Fire Science I & II <sup>21</sup>

Foundations of e-Communication <sup>21</sup>

Foundation of Electronics

Fundamentals of EMS

Future Educators Senior Capstone I & II <sup>21</sup>

Geoscience Senior Capstone <sup>21</sup>

Green Tech Senior Capstone-ALL <sup>21</sup>

Hand & Power Tools

Hazardous Materials-First Responder

Healthcare Research & Clinical Skills

Healthcare Workplace Experience

Home Health Aide-HHA

Innovations in Education <sup>21</sup>

Interior Design I & II

Interpersonal Skills

Introduction to Civic Leadership <sup>21</sup>

Introduction to Design I <sup>21</sup>

Intro to Education <sup>21</sup>

Intro to Engineering <sup>21</sup>

Introduction to Healthcare

Intro to Journalism

Intro to Technology Education

Intro to Psychology

Intro to Public Safety <sup>21</sup>

Investigations in Green Tech-Ag <sup>21</sup>

Investing <sup>21</sup>

Law Enforcement I & II <sup>21</sup>

Lifespan Development

Marketing Applications

Media & Public Relations: Newspaper

Medical Professions Investigations <sup>21</sup>

Medical Professions Senior Capstone <sup>21</sup>

Medical Terminology

Nutrition & Wellness

Peer Mentor for Interpersonal Skills class

Pharmacy Technician

Phlebotomy Technician

Photojournalism

Plant and Animal Science <sup>21</sup>

Principles of Applied Engineering <sup>21</sup>

Principles of Marketing & Brand Management

Principles of Marketing and Selling

Principles of Coaching & Leadership I & II <sup>21</sup>

Product Design Engineering <sup>21</sup>

Production Design Principles I & II

Public Safety Senior Capstone <sup>21</sup>

Relationships & Personal Development

Research & Design for Architecture I & II

Sports Information Directors <sup>21</sup>

Sports Medicine I <sup>21</sup>

Sports Medicine II <sup>21</sup>

Sports Medicine Senior Capstone <sup>21</sup>

Sports Psychology

Teaching as a Career <sup>21</sup>

Technical Theatre I & II

Video Production I & II

Web Design I, II, III & IV

Web & Digital Comm. Project Mgmt

Welding Technology

Woodworking & Design I & II

Work Experience in Aviation



Student Name: \_\_\_\_\_

Career Interest(s): \_\_\_\_\_

Electronic version is stored in Xello under "Course Planner"

Career Pathway(s): \_\_\_\_\_

Graduation Requirements	9th Grade	Credits	10th Grade	Credits	11th Grade	Credits	12th Grade	Credits	Year 13	Credits	Year 14	Credits
<b>*Class of 2028 and beyond*</b>												
<b>English</b> (4.0 credits)		1		1		1		1				
<b>Math</b> (3.0 credits)		1		1		1	Students are encouraged to take a 4 <sup>th</sup> year of math					
<b>Science</b> (3.0 credits)	Life Science	1	Physical Science	1	Elective Science	1	Students are encouraged to take a 4 <sup>th</sup> year of science					
<b>Social Studies</b> (3.0 credits)	World History or Honors World History	1	Option to fulfill .5 required SS elective	.5	US History or AP US History	1	US Government or AP Government	.5				
<b>Communications</b> (0.5 credit)												
<b>Financial Literacy</b> (0.5 credit)												
<b>Fine/Performing Arts</b> (1.0 credit)												
<b>Health</b> (0.5 credit)		.5										
<b>Language Applications</b> (1.0 credit)												
<b>Life Studies</b> (0.5 credit)												
<b>PE</b> (0.5 credit)		.5										
<b>STEM</b> (1.0 credit)												
<b>Individual Focus</b> (5.5 credits)												
<b>Total required credits for graduation = 24</b>	7 credits earned in a typical school year		7 credits earned in a typical school year		7 credits earned in a typical school year		7 credits earned in a typical school year					
<p>Your path after high school graduation will look different based upon continued education or training. Whether you attend college, join the military, seek additional training, or employment, plans and goals will continue to be a valuable part of your journey.</p> <p>Remember that every path plays an important role in our community. Strive to be and do your best. Each day is an opportunity to make a positive difference for yourself and others.</p> <p><b>We are proud of you!</b></p>												

# **COURSE OFFERINGS**

# BUSINESS AND COMPUTERS

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	College Now	Weighted Grade	eLearning available	GRADUATION REQUIREMENT					
		9	10	11	12						Applied Communication	Fine Art	Social Studies	Practical & Consumer	Technology	
BU 610P	Financial Literacy		•	•	•	0.5	T								✓	
BU 560P	Accounting I	•	•	•	•	0.5	T								✓	
BU 565P	Accounting II	•	•	•	•	0.5	T								✓	✓
BU 620P	Business Communications		•	•	•	0.5	T								✓	
SS 612P	Business Economics	•	•	•	•	0.5							✓	✓		
BU 500P	Business Essentials	•	•			0.5	I								✓	
BU 540P	Business Law	•	•	•	•	0.5	T								✓	
BU 660P	Business Management			•	•	0.5	T								✓	
BU 520P	Entrepreneurship		•	•	•	0.5	T								✓	
BU 531 AP/BP	Marketing Applications			•	•	1.0	A								✓	
BU 546P	Principles of Marketing and Selling	•	•	•	•	0.5	T								✓	
BU 547P	Principles of Marketing and Brand Management	•	•	•	•	0.5	T								✓	
BU 665P	Business Management Work Experience I				•	1.0	A								✓	
BU 666P	Business Management Work Experience II				•	1.0	A								✓	
CP 680 AP/BP	AP Computer Science A			•	•	1.0	A	✓	▲							✓
CP 660 AP/BP	AP Computer Science Principles		•	•	•	1.0	T		▲							✓
CP 553P	Web Design I	•	•	•	•	0.5	T					✓			✓	✓
CP 554P	Web Design II	•	•	•	•	0.5	T					✓			✓	✓
CP 455P	Graphic Design I	•	•	•	•	0.5	T	✓				✓	✓			✓
CP 458P	Graphic Design II	•	•	•	•	0.5	T	✓				✓	✓			✓
CP 556 AP/BP	Web & Digital Communications Project Management			•	•	1.0	A					✓	✓			✓

## Financial Literacy

BU 610P

Grade Level: 10, 11, 12

One Semester - 0.5 credit

(The Course Formally Known as Consumer &amp; Personal Finance)

This course will help students understand concepts, principles and skills involved in making and applying sound financial decisions. This course emphasizes earning income, spending, saving, investing, managing credit and managing risk. **Guided Enrollment Note: This class is a graduation requirement for the classes of 2022 and beyond.**

## Accounting I

BU 560P

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

Accounting is the language of business and will be required of anyone attending a business school or pursuing a major or minor in business in college. This course is the first in a sequence of three courses providing a foundation which supports both college-level coursework and personal financial experiences.

## Accounting II

BU 565P

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

Prerequisite: Accounting I

Accounting II reviews the basic concepts learned in the first semester and expands into areas of payroll, special journals, cash register systems, uncollectible accounts, and depreciation. Computers are utilized in the course to reinforce accounting cycle knowledge and give students a realistic view of how many businesses perform accounting tasks.

## AP Computer Science A

CP 680 AP/BP

Grade Level: 11, 12

Two Semesters - 1.0 credit

Prerequisite: AP Computer Science Principles or Computer Programming I &amp; II



This course provides students with the logical, mathematical, and problem-solving skills needed to design structured, well-documented computer programs that provide solutions to real-world problems. Specific topics may include programming methodology, features and procedures, algorithms, data structures, computer systems, and programmer responsibilities. **Guided Enrollment Note: Prior completion of Computer Programming I is highly recommended.**



## AP Computer Science Principles

CP 660 AP/BP



Grade Level: 10, 11, 12

Two Semesters - 1.0 credit

Prerequisite: Web Design I &amp; II (highly recommended)

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

## Business Communications

BU 620P

Grade Level: 10, 11, 12

One Semester - 0.5 credit

This course will help students to develop an understanding and appreciation for effective communication in business situations and environments. Emphasis is placed on all phases of communication: speaking, listening, thinking, responding, reading, writing, communicating non-verbally, and utilizing technology for communication. Business communication functions, processes, and applications in the context of business may be practiced through problem-based projects and real-world applications.

## Business Economics

SS 612P

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

Business Economics integrates economic principles of free market economy, consumerism, and the role of American government within the economic system with entrepreneurship/business concepts (such as marketing principles, business law, and risk). Student will learn basic macroeconomic and microeconomic theory, fiscal and monetary policies, the role and significance of international economics and government trade and regulatory policies.

## Business Essentials

BU 500P

Grade Level: 9, 10

One Semester - 0.5 credit

This course is designed for the student who seeks an introduction to business, marketing, and management. Students will develop the skills necessary to succeed in the business environment by studying forms of business ownership, functions of management, budgeting and finance, accounting, business communications, law, marketing, and economics. This course is appropriate for any student interested in Entrepreneurship and owning their own business.

## Business Law

BU 540P



Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

This course identifies and promotes the skills needed in law and law associated professions. Topics include the origins, ethics, structures, and institutions of law. It concentrates on several types of law including criminal, civil, consumer, contract, property, agency, employment, family and environmental law. Throughout the course, students will use case studies to examine and evaluate ethics, rights, and responsibilities in business law.

## Business Management

BU 660P

Grade Level: 11, 12

One Semester - 0.5 credit

Prerequisite: 0.5 credit Business course within Marketing Pathway or Business Management & Entrepreneurship Pathway

This course will acquaint students with management opportunities and effective human relations providing students with the skills to perform planning, staffing, financing, and controlling functions within a business. Students will be exposed to macro-level study of the business world, including business structure and finance, and the interconnections among industry, government, and the global economy. The course will emphasize problem-based, real-world applications of business concepts and use accounting concepts to formulate, analyze, and evaluate business decisions.

## Business Management Work Experience I

BU 665P

Grade Level: 12

One Semester - 1.0 credit

Prerequisite: 1.0 credit within Business Management Pathway

This course will acquaint students with management opportunities and effective human relations providing students with the skills to perform planning, staffing, financing, and controlling functions within a business. Students will be exposed to macro-level study of the business world, including business structure and finance, and the interconnections among industry, government, and the global economy. The course will emphasize problem-based, real-world applications of business concepts and use accounting concepts to formulate, analyze, and evaluate business decisions.

## Business Management Work Experience II

BU 666P

Grade Level: 12

One Semester - 1.0 credit

Prerequisite: 1.0 credit within Business Management Pathway

This course will acquaint students with management opportunities and effective human relations providing students with the skills to perform planning, staffing, financing, and controlling functions within a business. Students will be exposed to macro-level study of the business world, including business structure and finance, and the interconnections among industry, government, and the global economy. The course will emphasize problem-based, real-world applications of business concepts and use accounting concepts to formulate, analyze, and evaluate business decisions.

## Entrepreneurship

BU 520P

Grade Level: 10, 11, 12

One Semester - 0.5 credit

This course is designed to teach the student the basic principles and practices of owning a business. Students will learn about planning, organizing, controlling, problem-solving, and decision-making as it relates to owning a small business. Students will explore the free enterprise system through a combination of case studies, group work and speakers.

# BUSINESS AND COMPUTERS

## Graphic Design I

CP 455 P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Students will develop knowledge in commercial graphic design as a form of visual and artistic communication while learning to effectively communicate ideas and information to business and customer audiences via illustration and other forms of digital or printed media. Students will learn design elements and principles, concept design, layout and develop technical skills needed to produce a variety of publications. In addition, students will discover a wide range of career possibilities available to a graphic designer. Students will begin to develop a portfolio of work. **Guided enrollment Note: This course is offered at all high schools with open enrollment and is a required course for students pursuing the Graphic Design Strand of the 21st Century e-Communication Academy.**

## Graphic Design II

CP 458 P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Graphic Design I

Students will advance their knowledge and skills of graphic design, illustration and image manipulation. Students will acquire knowledge of page layout, create digital illustrations to effectively communicate ideas and information to business and customer audiences. Course topics include the ways in which visual messages are used in society, the skills needed by a graphic designer and the potential areas of specialization and employment. Students will continue to build a portfolio of work. **Guided enrollment Note: This course is offered at all high schools with open enrollment and is a required course for students pursuing the Graphic Design Strand of the 21st Century e-Communication Academy.**

## Marketing Applications

BU 531 AP/BP

Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: 1.0 credit of any Technical Level Marketing Pathway course(s).

This course furthers student understanding and skills in the various marketing functions. Students coordinate management activities, discuss the nature of marketing plans, generate product ideas, coordinate activities in promotional mix, and demonstrate specialized sales processes and techniques. Economic and financial concepts are also stressed throughout the course. Students will engage in hands-on, real-world activities through a variety of Project Based Learning and may have the opportunity for an in-house training by managing and running the school store.

## Principles of Marketing and Brand Management

BU 547P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This class offers students insight into the field of marketing and branding decisions. Students will be introduced to promotional and branding strategies as well as learning pricing, distribution and marketing research through project-based learning.

## Principles of Marketing and Selling

BU 546P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This class offers students insight into the selling processes affecting the marketing of goods and services from the producer to the consumer. Project based learning provides the students with authentic learning opportunities.

## Web Design I

CP 553P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

A foundation of web design will be gained by learning HTML and CSS, the standard web languages. Students will also learn how to make digital graphics. Students will incorporate all these, in addition to some basic JavaScript, to create website projects. They will have the opportunity to present their websites on the internet. **Guided enrollment Note: This course is offered at all high schools with open enrollment and is a required course for students pursuing the Web Design Strand of the 21st Century e-Communication Academy.**

## Web Design II

CP 554P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Web Design I

Students will continue the development of their web designing skills by using industry-standard web development software. Students will learn to use good navigation design and ease-of-use principles while developing projects for the web. Graphic design skills as they relate to the web will also be studied. Websites will be created incorporating all the skills learned in this course. **Guided enrollment Note: This course is offered at all high schools with open enrollment and is a required course for students pursuing the Web Design Strand of the 21st Century e-Communication Academy.**

## Web & Digital Communications Project Management

CP 556 AP/BP

Grade Level: 11, 12  
One Semester - 1.0 credit  
Prerequisite: Web Design II or Graphic Design II

This course provides students with the information and skills necessary for success in managing projects and operating logistical ventures in technology, business, and industry. Students will use their web design skills to create advanced websites while using industry-standard software for animation and video creation for the web. This course incorporates a survey of the careers within technology and engineering industries.

Course No.	Course Title	Possible Course Level				Credit	College Now	eLearning available	NCAA Approved	Weighted Grade	GRADUATION REQUIREMENT	App Communication	English
		9	10	11	12								
LA 530	Advanced Creative Writing			•	•	0.5			✓		✓		
LA 425 A/B	AP English Language & Composition			•		1.0			✓	▲		✓	
LA 445 A/B	AP English Literature & Composition				•	1.0	✓		✓	▲		✓	
LA 520	Creative Writing			•	•	0.5			✓		✓		
LA 540	Creative Writing: Literary Magazine			•	•	0.5					✓		
LA 310 A/B	English 9	•				1.0			✓			✓	
LA 412 A/B	English 10		•			1.0			✓			✓	
LA 422 A/B	English 11: Career Prep			•		1.0			✓			✓	
LA 420 A/B	English 11: College Prep			•		1.0			✓			✓	
LA 430 A/B	English 12: Career Prep				•	1.0			✓			✓	
LA 440 A/B	English 12: College Prep				•	1.0		📖	✓			✓	
LA 315 A/B	Honors English 9	•				1.0			✓	▲		✓	
LA 415 A/B	Honors English 10		•			1.0			✓	▲		✓	
PA 710	Public Speaking	•	•	•	•	0.5			✓		✓		
WW 352	Reading 9	•				1.0					✓		
WW 353	Reading 10		•			1.0					✓		
WW 354	Reading 11			•		1.0					✓		
WW 355	Reading 12				•	1.0					✓		

## Advanced Creative Writing

LA 530

Grade Level: 11, 12



One Semester - 0.5 credit

Prerequisite: Creative Writing or Honors English 10

This is a class for the advanced student who is committed and serious about writing. Students will learn about publishing and will be encouraged to submit to school-related publications. Writings might include a one-act play, a humorous monologue, or a children's book. **Guided Enrollment Note: A student application including portfolio works should be completed prior to spring enrollment.**

## AP English Language and Composition

LA 425 A/B

Grade Level: 11



Two Semesters - 1.0 credit

This course emphasizes the expository, analytical, and argumentative writing that forms the basis of academic and professional communications as well as the personal and reflective writing that fosters the development of writing in any context. Content requires students to think, read, and write critically and creatively at an advanced level. Students will be trained to become skilled readers of prose. This course is open to all students who desire a literary/linguistic challenge. **Guided Enrollment Note: Students must complete a summer reading and writing assignment for this class.**

## AP English Literature and Composition

LA 445A/B

Grade Level: 12



Two Semesters - 1.0 credit

Instruction focuses on the teaching of the advanced composition skills through the analysis and synthesis of classic and contemporary literature. Student writings include on demand essays, extended essays, and reader responses with an emphasis on literary analysis. This course requires students to be able to think, read, and write critically and creatively at an advanced level and also places emphasis on the skills needed for the college bound student. This course is open to all students who desire a literary/linguistic challenge. **Guided Enrollment Note: Students must complete a summer reading and writing assignment for this class.**

## Creative Writing

LA 520

Grade Level: 11, 12



One Semester - 0.5 credit

This course offers highly motivated students an opportunity to become disciplined writers by writing in a variety of forms, including poetry and fiction. Because the student must generally have a sound knowledge of the basic mechanics of writing and literary styles, the class is reserved for students who are serious about writing.

# ENGLISH LANGUAGE ARTS COURSES

## Creative Writing: Literary Magazine

LA 540

Grade Level: 11, 12  
One Semester - 0.5 credit

The primary focus of this class will be to read, evaluate, and select student writings to be published in the school literary magazine. Students will produce the magazine and engage in such activities as layout and design, selection of art and photography, proofreading and editing, desktop publishing, publicity, and sales. On a limited basis, staff members will engage in their own writing activities for submission to the magazine. This class is suggested for those with good organizational and editing skills, the ability to judge work on its literary merit, and the ability to work independently. Staff size is limited. **Guided Enrollment Note: This course may be repeated by permission of the instructor. A student application including portfolio works should be completed prior to spring enrollment.**

## English 9

LA 310 A/B

Grade Level: 9  
Two Semesters - 1.0 credit



In this course, students will closely examine literature and informational text as well as focus on writing, grammar, and a variety of communication skills. Students will also produce writing for a variety of purposes and audiences all of which will be grounded in claims and supported with evidence from the text.

## English 10

LA 412 A/B

Grade Level: 10  
Two Semesters - 1.0 credit



Students will experience a variety of literature and informational text from both the class textbook and district approved novels. Students will also produce writing for a variety of purposes and audiences. There is an emphasis on writing which is grounded in claims and supported by evidence from the text.

## English 11: Career Prep

LA 422 A/B

Grade Level: 11  
Two Semesters - 1.0 credit



This course introduces and develops critical literacy skills needed for success in the postsecondary workforce. Students will primarily focus on informational and technical reading, writing, and presentation skills. However, students will also engage with a variety of genres. The curriculum equips students with the skills, knowledge, and understanding necessary for any career path or English 12 course.

## English 11: College Prep

LA 420 A/B

Grade Level: 11  
Two Semesters - 1.0 credit



This course introduces and develops critical literacy skills for the college-bound student. Students will write and present in a variety of modes, with specific focus on supporting claims with textual evidence. The curriculum includes rigorous informational and literary texts in a variety of genres to prepare students for reading and writing expectations in multidisciplinary college courses.

## English 12: Career Prep

LA 430 A/B

Grade Level: 12  
Two Semesters - 1.0 credit



This course builds and reinforces critical literacy skills needed for success in the postsecondary workforce. Students will primarily focus on expository and technical reading, writing, and presentation skills; however, students will engage with a variety of genres and multimodal texts. The curriculum equips students with the skills, knowledge, and understanding necessary for any career path, providing global perspective on the world and readiness for life after high school.

## English 12: College Prep

LA 440A/B

Grade Level: 12  
Two Semesters - 1.0 credit



This course builds and reinforces critical literacy skills for the college-bound student. Students will write and present in a variety of modes, with specific focus on supporting claims with textual evidence. The curriculum includes rigorous informational and literary texts in a variety of genres to prepare students for reading and writing expectations in multidisciplinary college courses.

## Honors English 9

LA 315 A/B

Grade Level: 9  
Two Semesters - 1.0 credit



This course is open to all students who desire a literary/linguistic challenge. These challenges include thinking analytically, synthesizing, experiencing various genres, and an increased demand for writing. Students will produce writing for a variety of purposes and audiences all of which will be grounded in claims and supported with evidence from the text. Students enrolled in this course will be expected to apply advanced reading and writing skills. **Guided Enrollment Note: Students must complete a summer reading and writing assignment for this class.**

## Honors English 10

LA 415 A/B

Grade Level: 10  
Two Semesters - 1.0 credit



This course is open to all students who desire a literary/linguistic challenge. These challenges include thinking analytically, synthesizing, experiencing various genres, informational text and an increased demand for writing. Students will also produce writing for a variety of purposes and audiences all of which will be grounded in claims and supported with evidence from the text. Students enrolled will be expected to apply advanced reading and writing skills. **Guided Enrollment Note: Students must complete a summer reading and writing assignment for this class.**

## Public Speaking

PA 710

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit



This course is designed to improve students' public speaking skills. Assignments will include persuasive, informative, and entertainment speeches, as well as group discussion, debate, and oral interpretation.

## Reading 9

WW 352

## Reading 10

WW 353

## Reading 11

WW 354

## Reading 12

WW 355

Grade Level: 9, 10, 11, 12  
Two Semesters - 1.0 credits

This course is designed to improve basic reading skills including foundational skills, fluency, vocabulary, and comprehension. **Enrollment Note: Students are placed into this class based on district criteria.**

# ENGLISH SPEAKERS OF OTHER LANGUAGES COURSES <sup>21</sup>

Course No.	Course Title	Possible Course Level				Credit	GRADUATION REQUIREMENT	Science - Life or Science - Physical	English		
		9	10	11	12						
YA 150	ELL Pace	•	•	•	•	0.5-1.0					
LA 910	English Language Learners 1	•	•	•	•	0.5-1.0					✓
LA 911	English Language Learners 2	•	•	•	•	0.5-1.0					✓
LA 912	English Language Learners 3	•	•	•	•	0.5-1.0					✓
LA 913L A/B	ELL Science Foundations	•	•	•	•	1.0	✓				

## ELL Pace YA 150

Grade Level: 9, 10, 11, 12  
One or Two Semesters - 0.5-1.0 credit

This course is designed for non-native English speakers who need extra academic support in their classes. Students receive support in study skills and tier III vocabulary.

## ELL Science Foundations LA 913L A/B

Grade Level: 9, 10, 11, 12  
Two Semesters - 1.0 credit

This course builds upon students' previous knowledge of science to prepare them to take biology, physics, or chemistry their following year. The course introduces students to the foundational vocabulary and concepts of both life and physical science. Sample topics include the structure of the Earth, weather patterns, plate tectonics, Earth's atmosphere, the science process, the solar system, and fundamental concepts of ecology. Additionally, this course targets English-language proficiency development in the areas of reading, writing, listening, and speaking through the learning of science.

## English Language Learners 1 LA 910

Grade Level: 9, 10, 11, 12  
One or Two Semesters - 0.5 - 1.0 credit

In this course students that are English Speakers of Other Languages [ESOL] at the early proficiency stages of becoming emerging bilinguals, will receive culturally relevant, direct English instruction through the language skills of listening, speaking, reading, and writing as they tie to ESOL and ELA state standards. These skills will be developed through practice, vocabulary development, and targeted English language structures. This course replaces a student's ELA course as it seeks to promote English language development for students at early stages of English proficiency.

## English Language Learners 2 LA 911

Grade Level: 9, 10, 11, 12  
One or Two Semesters - 0.5 - 1.0 credit

In this course students that are English Speakers of Other Languages [ESOL] at the intermediate proficiency stages of becoming emerging bilinguals, will receive culturally relevant, direct English instruction through the language skills of listening, speaking, reading, and writing as they tie to ESOL state standards. These skills will be developed through practice, vocabulary development, and targeted English language structures. This course replaces a student's ELA course as it seeks to promote English language development for students at early stages of English proficiency.

## English Language Learners 3 LA 912

Grade Level: 9, 10, 11, 12  
One or Two Semesters - 0.5 - 1.0 credit

In this course students that are English Speakers of Other Languages [ESOL] receive direct support in English with focus on improving the four language skills of reading, writing, listening, and speaking.

# FAMILY AND CONSUMER SCIENCES

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	eLearning available	GRADUATION REQUIREMENT	Practical & Consumer
		9	10	11	12					
HE 858P	Apparel Production I	•	•	•	•	0.5	T		✓	
HE 859P	Apparel Production II		•	•	•	0.5	T		✓	
HE 575P	Baking Food Science	•	•	•	•	0.5	T		✓	
HE 476P	Career Connections				•	0.5	A		✓	
HE 475P	Community Connections			•	•	0.5	A		✓	
HE 560P	Culinary Essentials	•	•	•	•	0.5	T		✓	
HE 835P	Essentials of Fashion, Apparel, Interior Design	•	•	•	•	0.5	T		✓	
HE 866 AP/BP	FAID Studio				•	1.0	A		✓	
HE 411P	Family Studies		•	•	•	0.5	T		✓	
HE 846P	Fashion Trends I	•	•	•	•	0.5	T		✓	
HE 848P	Fashion Trends II		•	•	•	0.5	T		✓	
HE 413P	Lifespan Development	•	•	•	•	0.5	T		✓	
HE 841P	Interior Design I	•	•	•	•	0.5	T		✓	
HE 855P	Interior Design II		•	•	•	0.5	T		✓	
HE 615P	Nutrition & Wellness	•	•	•	•	0.5	T		✓	
HE 430P	Relationships & Personal Development			•	•	0.5	T		✓	

## Apparel Production I

HE 858P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Apparel Production I will provide students with the knowledge and skills to construct, alter, and repair clothing and textile products. Course topics typically include taking measurements, learning foundational sewing terms and applying sewing techniques to all projects.

## Apparel Production II

HE 859P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Apparel Production I

Apparel Production II will expand upon the various aspects of garment construction and the textile industry, conveying the commercial application of design principles, production processes, and maintenance techniques. **Guided Enrollment Note: This course can be repeated with instructor permission.**

## Baking Food Science

HE 575P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
(The Course Formally Known as Baking & Pastry I)

This course is designed to provide students with the basic skills and knowledge that enhance scientific principles and how those principles can be applied to improve the health of individuals and families. Instruction is given concerning the physical, and chemical principles that affect the food we eat. **Guided Enrollment Note: This course is highly recommended as a pre-requisite for the Culinary Arts program at Olathe Advanced Technical Center (OATC).**

## Career Connections

HE 476P

Grade Level: 12  
One Semester - 0.5 credit

Prerequisite: 1.0 credit within one of the following pathways: Family, Community, Consumer Services; Fashion, Apparel, Interior Design (FAID); or Restaurant & Event Management.

Career Connections provides human services/family and consumer sciences related work-based learning experiences (paid or unpaid) outside the traditional classroom. Learning goals are set by the student, teacher and employer/adult mentor to create field experiences and/or discussions related to human services/ family and consumer sciences occupational technical skills. **Guided Enrollment Note: Enrollment requires approval by FCS instructor.**

## Community Connections

HE 475P

Grade Level: 11, 12  
One Semester - 0.5 credit  
Prerequisite: 1.0 credit concurrent or completed within Family, Community, & Consumer Services pathway

Community Connections provides community based/school-based learning experiences typically within the family and consumer sciences classroom. Learning goals are set by the student, teacher and community partners to create experiences and/or discussions to enhance the development of the workplace skills (e.g. leadership, empathy, communication, problem solving, cooperation, critical thinking, and resource management) needed to be successful in service related careers.

## Culinary Essentials

HE 560P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This course will prepare students for careers or post-secondary programs related to the Culinary Arts. The course will include knife skills and a variety of cooking techniques. Students will expand their knowledge of flavor profiles. **Guided Enrollment Note: This class is strongly recommended for the Culinary Arts program located at Olathe Advanced Technical Center.**

## Essentials of Fashion, Apparel, Interior Design (FAID)

HE 835P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Essentials of FAID is **HIGHLY RECOMMENDED** as the first course to introduce students to the fashion, apparel, and interior design industries. Concepts covered will include elements and principles of design, textiles, and production processes as well as provide a discussion and exploration of career opportunities. Students will present work through various mediums.

## FAID Studio

HE 866 AP/BP

Grade Level: 12  
Two Semesters - 1.0 credits  
Prerequisite: 1 full credit completed within the Fashion, Apparel, Interior Design Pathway

FAID Studio is for the student who has an interest in the design industry. Students will create a variety of studio projects that involve retail design, commercial design, graphic design, and costume & set design. Internships will offer students extended learning opportunities. Students will work individually and in teams, to solve real-world, design industry problems.

## Family Studies

HE 411P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit

This course explores the roles and responsibilities of parents including parenting styles and family stages, reproduction and prenatal development, and the development of children and parents as their earliest teacher. Parenting and behavior guidance skills are strengthened through a study of positive family relationships, child abuse and neglect, safety, and health practices. Many real-life experiences will be introduced through the use of Real-Care Babies, Empathy Belly simulators, and guest speakers. Occupations related to meeting the needs of families will be analyzed.

## Fashion Trends I

HE 846P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Fashion Trends I provide students an opportunity to explore topics in the fashion industry. Content includes history of fashion, trend and color forecasting, garment styles, fashion illustration, client projects, and how trends are developed. Students will learn how to professionally present work including digital portfolios, mood boards, and display presentations.

## Fashion Trends II

HE 848P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Fashion Trends I

Fashion Trends II is a course that centers upon the merchandising of fashion products. Topics include exploring fashion trends and cycles, visual merchandising, digital illustration, children's wear, costume design, brand development, and entrepreneurship.

## Interior Design I

HE 841P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Interior Design I is a course that will focus on the design industry with an emphasis on interior design concepts. Topics will include housing and design styles, accessories, client selections, pattern pallets and drafting floor plans. Projects are integrated throughout the course to provide authentic applications in design basics, color, lighting and furniture arrangement.

## Interior Design II

HE 855P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Interior Design I

Interior Design II will prepare students for careers and/or post-secondary programs related to housing and the commercial design industry. Students will have the opportunity to explore remodeling, designing new interior spaces, working with a client, personal marketing, modern design, and career options. Students will also practice professional presentation skills using industry level technology.

## Lifespan Development

HE 413P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Life Span Development prepares students for occupations associated with meeting the needs of people by learning about physical, intellectual, emotional and social development from childhood to death. In addition, this course helps students discover how individuals respond to the various stages of the life span with a strong tie to teen years, adulthood and later years.

## Nutrition & Wellness

HE 615P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Nutrition & Wellness will prepare students to explore different components of wellness which include physical, social, and emotional health. Students will prepare for careers in nutrition and wellness by taking an in-depth look at various types of diets, nutrition information, disease prevention, and physical activity to identify and apply healthy practices for a lifetime of wellness.

## Relationships & Personal Development

HE 430P

Grade Level: 11, 12  
One Semester - 0.5 credit

Relationships and Personal Awareness provides students with ability to develop intrapersonal, interpersonal and cognitive competencies in personal, family, career and community settings. Students will analyze the impact of conditions that could influence the well-being of individuals, families and communities. Human services related career opportunities are incorporated throughout the course.

# FINE ARTS - PERFORMING COURSES

Course No.	Course Title	Possible Course Level				Credit	College Now	eLearning available	NCAA Approved	Weighted Grade	Applied Communication	Fine Arts	Practical & Consumer	Technology
		9	10	11	12									
<b>Choir</b>														
PA 410 A/B PA 411 A/B PA 412 A/B	Concert Treble Choir Concert Tenor-Bass Choir Concert Mixed Choir	•	•	•	•	1.0						✓		
PA 420 A/B PA 421 A/B PA 422 A/B	Intermediate Treble Choir Intermediate Tenor-Bass Choir Intermediate Mixed Choir	•	•	•	•	1.0						✓		
PA 430 A/B PA 431 A/B PA 432 A/B PA 433 A/B	Advanced Treble Choir Advanced Tenor-Bass Choir Advanced Mixed Choir Advanced Chamber Choir		•	•	•	1.0						✓		
<b>Debate/Forenscis</b>														
PA 730	Novice Debate	•	•	•	•	0.5			✓		✓	✓		
PA 750	Advanced Debate		•	•	•	0.5			✓		✓	✓		
PA 760	Honors Advanced Debate			•	•	0.5			✓	▲	✓	✓		
PA 740	Argumentation & Debate	•	•	•	•	0.5			✓		✓	✓		
PA 720	Forensics: Interscholastic Speech & Drama	•	•	•	•	0.5					✓	✓		
<b>Instrumental</b>														
PA 500 A/B	Concert Band	•	•	•	•	1.0						✓		
PA 510	Marching Band		•	•	•	0.5						✓		
PA 515	Symphonic Band		•	•	•	0.5						✓		
PA 520	Wind Ensemble		•	•	•	0.5						✓		
PA 530	Jazz Band	•	•	•	•	0.5						✓		
PA 570 A/B	Freshman Orchestra	•				1.0						✓		
PA 580 A/B	Concert Orchestra		•	•	•	1.0						✓		
PA 590 A/B	Advanced Orchestra		•	•	•	1.0						✓		
<b>Other</b>														
PA 552 A/B	Dance Team		•	•	•	1.0						✓		
PA 900	Fine & Performing Arts Senior Independent Study				•	0.5-1.0						✓		
PA 450 (.5) PA 450 A/B	AP Music Theory		•	•	•	0.5-1.0	✓			▲		✓		
<b>Theatre</b>														
PA 630	Acting I	•	•	•	•	0.5					✓	✓		
PA 640	Acting II	•	•	•	•	0.5					✓	✓		
PA 800	History of Film		•	•	•	0.5		📺			✓	✓		
PA 650 A/B	Repertory Theatre			•	•	1.0					✓	✓		
PA 652 A/B	Advanced Repertory Theatre				•	1.0					✓	✓		
PA 610	Technical Theatre I	•	•	•	•	0.5					✓	✓		
PA 620	Technical Theatre II	•	•	•	•	0.5					✓	✓		
PA 600	Theatre Production I	•	•	•	•	0.5					✓		✓	
PA 605	Theatre Production II	•	•	•	•	0.5					✓	✓		

**GRADUATION REQUIREMENT**



## Acting I PA 630

Grade Level: 9, 10 11, 12  
One Semester - 0.5 credit

Here is the chance to build the skills it takes to perform on stage. This class gives students the chance to work on acting techniques and performance skills. Students will be required to memorize dialogue for presentation during this class. **Guided Enrollment Note: Attendance at performances is a graded part of the class.**

## Acting II PA 640

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Acting I or teacher recommendation


This class increases acting training and expands students' knowledge of the theatrical world. This course takes students through audition processes, production skills, writing, analysis, and Shakespeare. Students will be required to memorize dialogue for presentation during this class. **Guided Enrollment Note: Attendance at performances is a graded part of the class.**

<b>Advanced Treble Choir</b>	PA 430 A/B
<b>Advanced Tenor-Bass Choir</b>	PA 431 A/B
<b>Advanced Mixed Choir</b>	PA 432 A/B
<b>Advanced Chamber Choir</b>	PA 433 A/B

Grade Level: 10, 11, 12  
Two Semesters - 1.0 credit

These ensembles are designed for students who demonstrate excellence in musicianship and choral singing. Emphasis is on advancing healthy vocal technique, ear training and musical literacy skills. **Guided Enrollment Note: Audition required. Performances, including those on evenings and weekends, are required/graded activities. Students enrolled in these courses will have additional performances.**

## Advanced Debate PA 750

Grade Level: 10, 11, 12   
One Semester - 0.5 credit  
Prerequisite: Novice Debate

This class is designed for students who demonstrate a high level of commitment in policy debate. Emphasis is on competition and stewardship to the debate community. **Guided Enrollment Note: The student will be required to participate in interscholastic tournaments, most of which occur on Friday evenings and Saturdays, (all day) and to help host the invitational tournament. Students must also meet all KSHSAA eligibility guidelines for participation.**

## Advanced Orchestra PA 590 A/B

Grade Level: 10 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Competitive audition and school orchestra experience

Students explore a variety of music with emphasis on advanced technical and performance skills and a rigorous curriculum. **Guided Enrollment Note: Audition required. Performances and rehearsals for orchestra, including those on Saturdays and school nights, are graded activities.**

## Advanced Repertory Theatre PA 652 A/B

Grade Level: 12  
Two Semesters - 1.0 credit  
Prerequisite: Repertory Theatre or teacher recommendation


This is a course for the serious theatre student who would like to expand on the knowledge gained in repertory theatre. There will be further theatrical production and acting experiences throughout the year. Increased auditioning skills, portfolio creation, theatrical leadership, and exploration into post high school theatrical opportunities will be offered. **Guided Enrollment Note: Audition or instructor recommendation required. Outside of school rehearsals, performances and attendance at performances is a graded part of the class.**

## AP Music Theory PA 450 (.5) PA 450 A/B

Grade Level: 10, 11, 12  
One-Two Semesters- 0.5-1.0 credit

This course will explore the structure of music from the most fundamental laws of music theory to the more complex concepts of four-part writing, voice leading, inversions and chord construction, and form.

## Argumentation & Debate PA 740

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit 

Argumentation and Debate is an alternative to Novice and Advanced Debate and does not require co-curricular participation at weekend tournaments outside of class. Students learn the fundamentals of argumentation, logic, and critical thinking across a variety of debate forums including public policy debate, philosophical debate, congressional debate, and public forum debate.

## Concert Band PA 500 A/B

Grade Level: 9, 10, 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Prior school band experience

There is no audition required to participate in this course. Students are required to be enrolled in two semesters of this band course. Students may participate in some activities related to marching band on a limited basis during the year. **Guided Enrollment Note: This course is open to students in grades 10, 11, and 12 with teacher permission. Throughout the year, attendance is required at performances and rehearsals, which may be scheduled before/after school, in the evening or on weekends. A uniform purchase may be required, but financial assistance will be provided to those who qualify.**

<b>Concert Treble Choir</b>	PA 410 A/B
<b>Concert Tenor-Bass Choir</b>	PA 411 A/B
<b>Concert Mixed Choir</b>	PA 412 A/B

Grade Level: 9, 10, 11, 12  
Two Semesters - 1.0 credit

This class is designed to develop the singing voice, ear training & music literacy skills, and facilitate individual growth. These ensembles will focus on building healthy vocal technique and production. **Guided Enrollment Note: No audition required. Performances, including those on evenings and weekends, are required/graded activities.**

# FINE ARTS - PERFORMING COURSES

## Concert Orchestra

PA 580 A/B

Grade Level: 10, 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Freshman Orchestra or permission of instructor

Students explore a variety of music with emphasis on strengthening technical and performance skills. There is no audition required to participate in this orchestra. **Guided Enrollment Note: Performances and rehearsals for orchestra, including those on Saturdays and school nights, are graded activities.**

## Dance Team

PA 552 A/B

Grade Level: 10 11, 12  
Two Semesters - 1.0 credit

This is a select group of performers and part of the marching band during football season. This course is aimed at developing performance skills through character, coordination, rhythm, and showmanship. Admittance is through a competitive audition held in the spring in which the student will learn basic marching, dance, and equipment moves. **Guided Enrollment Note: Performances are after school, evenings, and weekends, and are graded activities.**

## Fine & Performing Arts Senior Independent Study

PA 900

Grade Level: 12  
One Semester - 0.5-1.0 credit  
Prerequisite: Teacher recommendation

This course is designed for students who are working with an instructor to complete a senior culminating project in a chosen arts area (music, theatre, or visual art). **Guided Enrollment Note: Instructor recommendation and approval required.**

## Freshman Orchestra

PA 570 A/B

Grade Level: 9  
Two Semesters - 1.0 credit  
Prerequisite: 8th Grade Orchestra or permission of instructor

Students explore a variety of music with emphasis on strengthening technical and performance skills. **Guided Enrollment Note: Performances and rehearsals for orchestra, including those on Saturdays and school nights, are graded activities.**

## History of Film

PA 800

Grade Level: 10 11, 12  
One Semester - 0.5 credit

This course examines the impact of the film industry on American history and culture as advances in technology have changed the film industry over time. Students will view and write about a series of required classical films, from different genres, from silent films to the present. Research, critical thinking, analyzing, and utilization of extensive writing strategies are emphasized for all assignments and projects.

## Honors Advanced Debate

PA 760

Grade Level: 11, 12  
One Semester - 0.5 credit  
Prerequisite: Advanced Debate



This class is designed for students who seek a more rigorous and intensive advanced debate education. Additional coursework and tournament competition is required, and students will be expected to fulfill leadership roles. **Guided Enrollment Note: The student will be required to participate in interscholastic tournaments, most of which occur on Friday evenings and Saturdays, (all day) and to help host the invitational tournament. Students must also meet all KSHSAA eligibility guidelines for participation.**

## Intermediate Treble Choir

PA 420 A/B

## Intermediate Tenor-Bass Choir

PA 421 A/B

## Intermediate Mixed Choir

PA 422 A/B

Grade Level: 9, 10, 11, 12  
Two Semesters - 1.0 credits

This class will build upon and continue developing the singing voice, ear training & music literacy skills, and facilitate individual growth. These ensembles will focus on building healthy vocal technique and production. **Guided Enrollment Note: Audition required. Performances, including those on evenings and weekends, are required/graded activities.**

## Forensics: Interscholastic Speech & Drama

PA 720

Grade Level: 9, 10 11, 12  
One Semester - 0.5 credit

This is a course for students interested in contest acting, speaking, debating, and oral interpretation. Many opportunities for interscholastic competition will be provided. The student may participate in acting, speaking, interpretation, debating, or a combination of these. **Guided Enrollment Note: The student will be required to participate in interscholastic tournaments and to help host the invitational tournament. Students must also meet all KSHSAA eligibility guidelines for participation.**

## Jazz Band

PA 530

Grade Level: 9, 10 11, 12  
One Semester - 0.5 credit  
Prerequisite: Concurrent enrollment in Concert Band, Marching/Symphonic Band, Marching Band/Wind Ensemble, Freshman Orchestra, Concert Orchestra, or Advanced Orchestra

This is a select instrumental group offering the advanced instrumental student an opportunity to explore the various styles of jazz music. The course offers experience in solo and improvisational study. **Guided Enrollment Note: Audition required. Performances, including those on Saturdays and school nights, are graded activities.**

## Marching Band

PA 510

Grade Level: 10 11, 12  
One Semester - 0.5 credit

This first semester course 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 student is involved in marching band related activities for approximately the first nine weeks and then will shift to concert related activities. Students must also be enrolled in either PA515 Symphonic Band or PA520 Wind Ensemble for second semester. **Guided Enrollment Note: All students must attend required rehearsals prior to the start of the school year and class rehearsals that start before the regular school day during marching season. Performances and rehearsals, including those on Saturdays and school nights, are required graded activities.**

## Novice Debate

PA 730

Grade Level: 9, 10 11, 12  
One Semester - 0.5 credit



This class serves as an introduction to interscholastic high school debate in the state of Kansas. The course is designed to develop critical thinking, writing, public speaking, research, and organization skills. **Guided Enrollment Note: The student will be required to participate in interscholastic tournaments, most of which occur on Friday evenings and Saturdays, (all day) and to help host the invitational tournament. Students must also meet all KSHSAA eligibility guidelines for participation.**

## Repertory Theatre

PA 650 A/B

Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Acting II or Technical Theatre II or Theatre Production II or teacher recommendation

This is a course for the serious theatre student. Aspects of theatrical production, advanced acting techniques, and theatrical leadership will be addressed. Career exploration and preparation for theatre post high school will be covered, including auditioning skills and portfolio creation. **Guided Enrollment Note: Audition or instructor recommendation required. Outside of school rehearsals, performances and attendance at performances is a graded part of the class.**

## Symphonic Band

PA 515

Grade Level: 10 11, 12  
One Semester - 0.5 credit

This course is primarily open to students who play a wind or percussion instrument. Ninth grade students may audition for placement in this ensemble. Students must also be enrolled in PA510 Marching Band for first semester. **Guided Enrollment Note: Performances and some rehearsals, including those on Saturdays and school nights, are required graded activities.**

## Technical Theatre I

PA 610

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This is for students with previous technical theatre experience. This course emphasizes construction techniques used in theatre production. Other technical aspects such as costuming, make-up, lighting, sound, publicity and properties are introduced. Projects completed in class will be in conjunction with plays produced. Some out of class time may be required. **Guided Enrollment Note: Attendance at performances is a graded part of the class.**

## Technical Theatre II

PA 620

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Technical Theatre I or teacher recommendation

This course is the advanced study of technical theatre production with a continued emphasis on construction techniques used in theatre. There will also be further exploration of costuming, make-up, lighting, sound, publicity and properties. This class also includes an introduction to theatrical leadership. Projects completed in class will be in conjunction with plays produced. Some out of class time may be required. **Guided Enrollment Note: Attendance at performances is a graded part of the class.**

## Theatre Production I

PA 600

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This hands-on course is perfect for both new and seasoned theatre students who are interested in theatre at the high school level. Students will build life long skills in team building, critical thinking, time management and others by exploring the theatre production process from page to stage. This class, which focuses on backstage elements, can meet the .5 Technology Graduation Credit or a .5 Fine Arts Graduation Credit. **Guided Enrollment Note: Some out of class time may be required including attendance at out of school performances or productions.**

## Theatre Production II

PA 605

Grade Level: 9, 10 11, 12  
One Semester - 0.5 credit  
Prerequisite: Theatre Production I or teacher recommendation

This class continues where Theatre Production I left off. Building on the life skills learned in Theatre Production 1, this class, will produce memorized performances throughout the semester. Students will explore the theatre production process from page to stage. This class, which focuses on performance elements, can meet a .5 Fine Arts Graduation Credit or a .5 Applied Communication Graduation Credit. **Guided Enrollment Note: Some out of class time may be required including attendance at out of school performances or productions.**


## Wind Ensemble

PA 520

Grade Level: 10 11, 12  
One Semester - 0.5

This audition-based performance group is primarily open to students who play a wind or percussion instrument at an advanced level. Ninth grade students may audition for placement in this ensemble. Students will be exposed to advanced band literature that may require more extensive home practice. Students must also be enrolled in PA510 Marching Band for first semester. **Guided Enrollment Note: Performances and some rehearsals, including those on Saturdays and school nights, are required graded activities.**

# FINE ARTS - VISUAL COURSES

Course No.	Course Title	Possible Course Level				Credit	eLearning available	Weighted Grade	GRADUATION REQUIREMENT	Applied Communication	Fine Arts	Practical & Consumer	Technology
		9	10	11	12								
AR 465	Advanced Digital Photography		•	•	•	0.5				✓	✓	✓	
AR 500	Advanced Ceramics		•	•	•	0.5				✓			
AR 585 A/B	Advanced Studio Art II				•	1.0				✓			
AR 580 A/B	AP Studio Art: 2-D Design		•	•	•	1.0		▲		✓			
AR 581A/B	AP Studio Art: 3-D Design		•	•	•	1.0		▲		✓			
AR 582 A/B	AP Studio Art: Drawing		•	•	•	1.0		▲		✓			
AR 850E	Art History	•	•	•	•	0.5				✓			
AR 455	Basic Digital Photography	•	•	•	•	0.5				✓	✓	✓	
AR 490	Ceramics	•	•	•	•	0.5				✓			
AR 410	Drawing I	•	•	•	•	0.5				✓			
AR 420	Drawing II	•	•	•	•	0.5				✓			
AR 430	Drawing III		•	•	•	0.5				✓			
AR 440	Drawing IV		•	•	•	0.5				✓			
PA 900	Fine and Performing Arts Senior Independent Study				•	0.5-1.0				✓			
AR 565	Jewelry/Metals		•	•	•	0.5				✓			
AR 530	Painting		•	•	•	0.5				✓			
AR 570	Sculpture	•	•	•	•	0.5				✓			
The courses below are available at Olathe North only.													
AR 672	3-D Animation Design	•	•	•	•	0.5				✓	✓	✓	✓
AR 647	3-D Modeling for Art and Animation	•	•	•	•	0.5				✓	✓	✓	✓
AR 677	Advanced Animation Studio			•	•	0.5				✓	✓	✓	✓
AR 460	Advanced Darkroom Photography			•	•	0.5				✓	✓		
AR 657	Advanced Digital Advertising & Design	•	•	•	•	0.5				✓	✓	✓	✓
AR 450	Basic Darkroom Photography		•	•	•	0.5				✓	✓		
AR 612	Digital Design & Graphics	•	•	•	•	0.5				✓	✓	✓	
AR 643	Animation	•	•	•	•	0.5				✓	✓	✓	✓

## 3-D Animation Design

AR 672

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Use 3-D animation software and other graphics tools to tell your story! Learn character and story development, animation principles, sound and editing skills. Design animations for film, television, and video games. Impress your friends, family, and future boss as your ideas come alive in 3-D. **Guided Enrollment Note: This course is available only at Olathe North.**

## 3-D Modeling for Art and Animation

AR 647

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Using 3-D modeling software and other digital tools, learn to create fantastic imagery, characters, vehicles, props, and environments. Animation and art only scratch the surface for the many uses of 3-D modeling including architecture, industry, medicine, military, advertising and much more. **Guided Enrollment Note: This course is available only at Olathe North.**

## Advanced Animation Studio AR 677

Grade Level: 11, 12  
 One Semester - 0.5 credit  
 Prerequisite: Animation, 3-D Modeling, or 3-D Animation

This course is for students who are serious about a future in animation careers and post-secondary training to take their basic skills to a higher level. Options include independent animation projects, post-secondary exploration, demo-reel development, portfolio preparation, cross-discipline cooperative projects, and more. Students should be self-motivated, have a desire to achieve excellence, and be able to manage independent time-tables and deadlines. Considerable work outside of class will be required. **Guided Enrollment Notes: This course is available only at Olathe North.**

## Advanced Ceramics AR 500

Grade Level: 10, 11, 12  
 One Semester - 0.5 credit  
 Prerequisite: Ceramics

This course emphasizes personal expression of clay forms. Students will explore advanced processes, clays, glazes, and firing methods. Experimentation and craftsmanship are integral parts of this course. This course may be repeated with teacher permission.

## Advanced Darkroom Photography AR 460

Grade Level: 11, 12  
 One Semester - 0.5 credit  
 Prerequisite: Basic Darkroom Photography

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The course covers advanced techniques in black and white film photography with an emphasis on problem solving and visual communications. Further emphasis is placed on the development of the student's artistic style. Alternative photography techniques will also be explored. **Guided Enrollment Note: This course is offered only at Olathe North High School.**

## Advanced Digital Advertising & Design AR 657

Grade Level: 9, 10 11, 12  
 One Semester - 0.5 credit  
 Prerequisite: Digital Design & Graphics

In this advanced project based course, students will continue to explore graphic design and advertising from an art standpoint. Students will learn real world skills using current design standard programs such as Photoshop, Illustrator, and other creative software to create logos, posters, ad layouts, & print media, all with a focus on promotion, design and marketing. **Guided Enrollment Note: This course is offered only at Olathe North High School.**

## Advanced Digital Photography AR 465

Grade Level: 10 11, 12  
 One Semester - 0.5 credit  
 Prerequisite: Basic Digital Photography

This course covers advanced photography skills with an emphasis on craftsmanship, problem solving, and visual communication. Further emphasis is placed on the development of the student's ability to apply creative thinking and contemporary techniques in executing meaningful and effective photographs. Students will also experience traditional photographic techniques and vocabulary. **Guided Enrollment Note: Students should expect considerable work outside of the classroom setting.**

## Advanced Studio Art II AR 585 A/B

Grade Level: 12  
 Two Semesters - 1.0 credit  
 Prerequisite: AP Studio Art: 2-D Design or AP Studio Art: 3-D Design or AP Studio Art: Drawing.

Designed for students who have completed a full year of AP Studio Art in a specific area of concentration (2-D-Design, 3-D Design, or Drawing) and have received 1.0 weighted credit, but desire to re-enroll in that same class to complete their portfolio. **Guided Enrollment Note: Teacher permission required.**

## Animation AR 643

Grade Level: 9, 10, 11, 12  
 One Semester - 0.5 credit

Explore the entertaining world of animation for film, television, web, and interactive entertainment using everything from basic drawing tools to the latest in graphics and animation software. Learn character design, story development, communication, and animation principles, while exploring the careers of production design, 2D & 3D animation, and motion graphics! **Guided Enrollment Note: This course is available only at Olathe North.**

## AP Studio Art: 2-D Design AR 580 A/B

## AP Studio Art: 3-D Design AR 581 A/B

## AP Studio Art: Drawing AR 582 A/B

Grade Level: 10, 11, 12  
 Two Semesters - 1.0 credit  
 Prerequisite: Teacher permission recommended

This class is for the very serious and individually driven student who is intent on pursuing an art or design-related course of study. Students will complete an inquiry based portfolio throughout the year. This class is a College Board course scored and submitted with the potential to obtain college credit. It is highly-suggested to have taken a variety of visual arts courses in order to have knowledge of technical skills and materials. **Guided Enrollment Note: Teacher permission recommended. A maximum of 1.0 weight may be credited for each original AP Studio Art course.**

## Art History AR 850E

Grade Level: 9, 10 11, 12  
 One Semester - 0.5 credit

This art history course is offered only online. It includes a detailed discussion of the elements and principles of art and how they are used to examine artworks. Artists, their work, and the cultures in which they were created are examined from ancient times to present.

## Basic Darkroom Photography AR 450

Grade Level: 10, 11, 12  
 One Semester - 0.5 credit

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Have you ever been curious about working in a photographic darkroom? This course will cover the fundamentals of photography, the use of the 35mm film camera and its components, darkroom techniques that include film development, use of the enlarger, and paper development. The history of photography and the evolution of the camera will also be explored. **Guided Enrollment Note: This course is offered only at Olathe North High School.**

# FINE ARTS - VISUAL COURSES

## Basic Digital Photography

AR 455

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This is an introduction to the concepts, tools and technology of digital imaging for photographers. Students will learn digital technology, including digital cameras and imaging software, and will use their knowledge to produce, create, and/or manipulate images for commercial and/or artistic applications.

## Ceramics

AR 490

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Ceramic art explores materials and their relation to the various methods of forming clay. Projects may include wheel-thrown ceramics, extruded, modeling, and slab methods.

## Digital Design & Graphics

AR 612

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Students will learn real world design skills and how to combine art & design skills with the latest in graphics software in this digital art class. This course will teach students how the elements and principles of art can enhance digital skills using current software like Photoshop and Illustrator. Through design projects, students will add tools to their artist's toolbox for the digital design world. **Guided Enrollment Note: This course is available only at Olathe North.**

## Drawing I

AR 410

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This course is an introduction to drawing and serves as a foundation for other art courses. The course content includes a variety of media and subject matter exploration. Supplemental experiences will include artists and their works, media demonstrations, exhibiting art work(s), and written reflections.

## Drawing II

AR 420

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Drawing I

This course is an introduction to color theory. The course content includes a variety of media and subject matter exploration. Supplemental experiences will include artists and their works, media demonstrations, exhibiting art work(s), and written reflections.

## Drawing III

AR 430

Grade Level: 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Drawing II

This course includes solving complex problems through research and exploration of ways and means of drawing including understanding of the elements of art and principles of design. Students will document their research and idea development. A wide variety of media will be explored. The subject matter is derived from problems that require research and critical thinking to produce visual solutions. Supplemental experiences will include artists and their works, presentation, written reflection, and production of original works of art.

## Drawing IV

AR 440

Grade Level: 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Drawing III

This course includes solving complex problems through research and exploration of ways and means of drawing including understanding of the elements of art and principles of design. Students will document their research and idea development. A wide variety of media will be explored. The subject matter is derived from problems that require research and critical thinking to produce visual solutions. Supplemental experiences will include artists and their works, presentation, written reflection, and production of original works of art.

## Fine & Performing Arts Senior Independent Study

PA 900

Grade Level: 12  
One Semester - 0.5-1.0 credit  
Prerequisite: Teacher recommendation

This course is designed for students who are working with an instructor to complete a senior culminating project in a chosen arts area (music, theatre, or visual art). **Guided Enrollment Note: Instructor recommendation and approval required.**

## Jewelry/Metals

AR 565

Grade Level: 10, 11, 12  
One Semester - 0.5 credit

This course is an introduction to the fundamentals of jewelry-making and metalsmithing. Studio experience will lead to competence in basic techniques of working with metals and other materials. Processes may include jewelry design, fabrication and soldering.

## Painting

AR 530

Grade Level: 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Drawing I

This course will incorporate a variety of media and will emphasize color theory, the application of paint to different surfaces, and methods of mixing paints. Supplemental experiences will include artists and their works, presentation, written reflection, and production of original works of art.

## Sculpture

AR 570

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

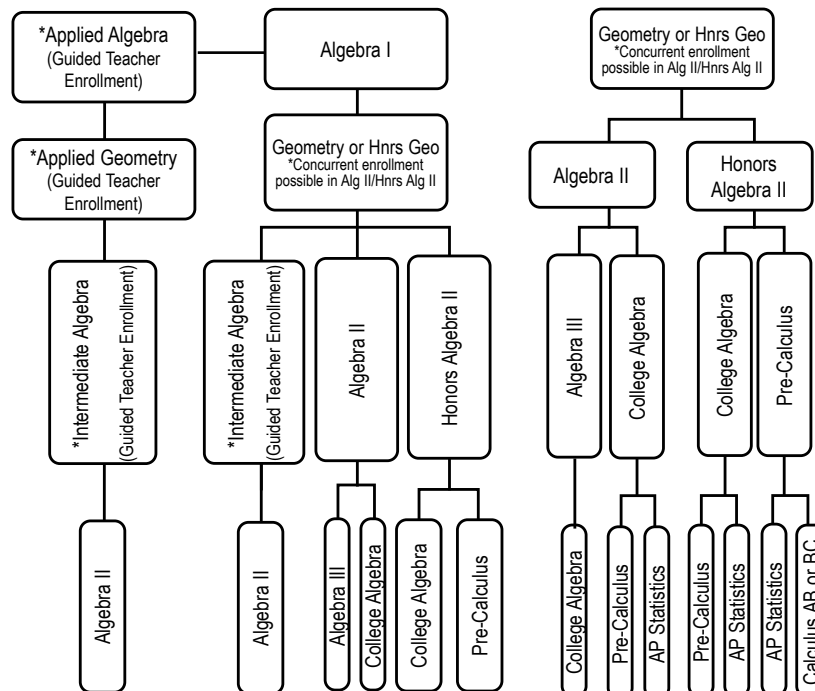
Sculpture is an introduction to the concept of form in three dimensions. Studio experience may incorporate a variety of media into the sculptural form. Supplemental experiences may include the study of artists and their works and making connections between sculpture and real life experience.

# MATHEMATICS COURSES

Course No.	Course Title	Possible Course Level				Credit	College Now	NCAA Approved	Weighted Grade	GRADUATION REQUIREMENT	Math
		9	10	11	12						
MA 520 A/B	Algebra I	•				1.0		✓		✓	
MA 550 A/B	Algebra II		•	•	•	1.0		✓		✓	
MA 565 A/B	Algebra III			•	•	1.0		✓		✓	
MA 810 A/B	AP Calculus AB			•	•	1.0	✓	✓	▲	✓	
MA 850 A/B	AP Calculus BC			•	•	1.0	✓	✓	▲	✓	
MA 860 A/B	AP Statistics			•	•	1.0	✓	✓	▲	✓	
MA 542 A/B	Applied Algebra I	•				1.0				✓	
MA 544 A/B	Applied Geometry		•			1.0				✓	
MA 620 A/B	College Algebra			•	•	1.0	✓	✓		✓	
MA 540 A/B	Geometry	•	•	•		1.0		✓		✓	
MA 615 A/B	Honors Algebra II		•	•		1.0		✓	▲	✓	
MA 545 A/B	Honors Geometry	•	•			1.0		✓	▲	✓	
MA 525 A/B	Intermediate Algebra			•		1.0				✓	
MA 870	Linear Algebra				•	0.5		✓	▲	✓	
MA 880	Multivariable Calculus				•	0.5		✓	▲	✓	
MA 720 A/B	Pre-Calculus			•	•	1.0	✓	✓	▲	✓	

## High School Math Course Sequence

Individual student course recommendation may vary



\*Courses do not meet Qualified Admissions for Pre-College Curriculum

# MATHEMATICS COURSES

## Algebra I

MA 520 A/B

Grade Level: 9  
Two Semesters - 1.0 credit



The critical areas in Algebra deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. Students engage in methods for analyzing, solving, and using quadratic functions. The Mathematical Practice Standards together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of problem solving skills.

## Algebra II

MA 550 A/B

Grade Level: 10, 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Geometry



Building on work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical function. Students work closely with the expressions that define the functions and continue to expand and hone their abilities to model situations and solve equations, including quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards apply throughout this course. A TI-84 series graphing calculator is required.

## Algebra III

MA 565 A/B

Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Algebra II



Instruction emphasizes a more in depth look at quadratic and polynomial equations with real and complex solutions, exponential and logarithmic equations and functions, and rational expressions. Other topics include transformations, sequences and series, conics, and trigonometry. A TI-84 series graphing calculator is required. **Guided Enrollment Note: This course is for students needing additional instruction in preparation for College Algebra**

## AP Calculus AB

MA 810 A/B

Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Pre-Calculus



Instruction emphasizes functions, graphs, and limits, derivatives and their applications, properties of definite integrals and application of integrals, Fundamental Theorem of Calculus, and techniques and applications of anti-differentiation. Students will need access to a graphing calculator on a regular basis.

## AP Calculus BC

MA 850 A/B

Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Pre-Calculus



Instruction emphasizes functions, graphs, and limits including parametric, polar, and vector functions, derivatives and their applications including L' Hospital's Rule, properties of definite integrals and application of integrals, Fundamental Theorem of Calculus, techniques and applications of anti-differentiation, polynomial approximations and series. Students will need access to a graphing calculator on a regular basis.

## AP Statistics

MA 860 A/B

Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Pre-Calculus or College Algebra



Instruction emphasizes collecting, analyzing, and drawing conclusions from data. Students 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. A TI-84 series graphing calculator is required.

## Applied Algebra I

MA 542 A/B

Grade Level: 9  
Two Semesters - 1.0 credit

The critical areas in Algebra deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. Students engage in methods for analyzing, solving, and using quadratic functions. The Mathematical Practice Standards together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of problem solving skills. This course is intended for students needing additional support with math concepts.

## Applied Geometry

MA 544 A/B

Grade Level: 10  
Two Semesters - 1.0 credit  
Prerequisite: Applied Algebra 1

The goal of this course is to formalize and extend students' geometric experiences by exploring more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Transformations are emphasized early and the Mathematical Practices are applied throughout. Critical areas include rigid motions, triangle congruence, similarity, and geometric relationships, properties of special triangles and quadrilaterals, and theorems about circles. This course is intended for students needing additional support with math concepts.

## College Algebra

MA 620 A/B

Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Honors Algebra II, Algebra II or Algebra III



Instruction emphasizes quadratic equations and inequalities using irrational and complex numbers, analytical geometry, applications of sequence and series, matrix algebra, probability and statistics, and trigonometry. A TI-84 series graphing calculator is required.



## Geometry

MA 540 A/B

Grade Level: 9, 10, 11  
 Two Semesters - 1.0 credit  
 Prerequisite: Algebra I



The goal of this course is to formalize and extend students' geometric experiences by exploring more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Transformations are emphasized early and the Mathematical Practices are applied throughout. Critical areas include rigid motions, triangle congruence, similarity, and geometric relationships, properties of special triangles and quadrilaterals, and theorems about circles. **Guided Enrollment Note: For Geometry in Construction, students should also enroll in IT610P Production Technology I and IT620 Production Technology II. Concurrent enrollment possible in Alg II.**

## Honors Algebra II

MA 615 A/B

Grade Level: 10, 11  
 Two Semesters - 1.0 credit  
 Prerequisite: Geometry



Building on work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions and continue to expand and hone their abilities to model situations and solve equations, including quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards apply throughout this course. A TI-84 series graphic calculator is required.

## Honors Geometry

MA 545 A/B

Grade Level: 9, 10  
 Two Semesters - 1.0 credit  
 Prerequisite: Algebra I



The goal of this course is to formalize and extend students' geometric experiences by exploring more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Transformations are emphasized early and the Mathematical Practices are applied throughout. Critical areas include rigid motions, triangle congruence, similarity, and geometric relationships, properties of special triangles and quadrilaterals, and theorems about circles. Six additional advanced concepts are part of the curriculum as well as the high school Geometry standards. **Guided Enrollment Note: Concurrent enrollment possible in Hnrs Alg II.**

## Intermediate Algebra

MA 525 A/B

Grade Level: 11  
 Two Semesters - 1.0 credit  
 Prerequisite: Applied Geometry or Geometry

Instruction emphasizes fundamental concepts in the Algebra II curriculum while reinforcing those Algebra I skills which are essential for the understanding of Algebra II concepts. This course is intended for students needing additional support with math concepts.

## Linear Algebra

MA 870

Grade Level: 12  
 One Semester - 0.5 credit  
 Prerequisite: AP Calculus BC



This course introduces the mathematical discipline of linear algebra from a formal, rigorous perspective. Instruction emphasizes solutions of  $n \times n$  systems of equations, determinants and eigenvalues, operations on vector spaces, and linear transformations of vector spaces. Students will be introduced to formal mathematical proof throughout the course. This course is offered second semester.

## Multivariable Calculus

MA 880

Grade Level: 12  
 One Semester - 0.5 credit  
 Prerequisite: AP Calculus BC



This course extends the topics from AP Calculus BC, working with multiple variables and multiple dimensions. Topics include vectors in space, cylindrical and spherical coordinates, and calculus of vector-valued functions, limits of functions of several variables, partial derivatives, directional derivatives and gradients, double and triple integrals, and applications to analysis of functions of several variables. This course is offered first semester.

## Pre-Calculus



MA 720 A/B

Grade Level: 11, 12  
 Two Semesters - 1.0 credit  
 Prerequisite: Honors Algebra II



Instruction emphasizes algebraic and graphical analysis with transformations, the study of continuity, rational, logarithmic and exponential functions, trigonometric functions and circular relations, conics, sequences and series, limits, parametrics, and vectors. A TI-84 series graphing calculator is required.

# PHYSICAL EDUCATION COURSES

Course No.	Course Title	Possible Course Level				Credit	eLearning available	GRADUATION REQUIREMENT	PE & Health Education	Individual Focus
		9	10	11	12					
WW 610 A/B	Cheerleading		•	•	•	1.0			✓	
PE 600 A/B	Cheerleading 9	•				1.0		✓		
PE 610 A/B	Dance Team 9	•				1.0		✓		
PE 405	Health	•	•			0.5		✓		
PE 530	Lifetime Fitness		•	•	•	0.5			✓	
PE 525	Physical Education Activities		•	•	•	0.5			✓	
PE 400	Physical Education Concepts	•	•			0.5		✓		
PE 510	Strength & Conditioning I	•	•	•	•	0.5			✓	
PE 515	Strength & Conditioning II		•	•	•	0.5			✓	

## Cheerleading

WW 610 A/B

Grade Level: 10, 11, 12

Two Semesters - 1.0 credit

Prerequisite: Competitive audition held in the spring

This course is required for all cheerleaders who are selected in spring tryouts. Activities of the class involve perfecting gymnastics skills, planning cheers and pep assemblies, and completing other projects to foster school and team spirit.

## Cheerleading 9

PE 600 A/B

Grade Level: 9

Two Semesters - 1.0 credit

Prerequisite: Competitive audition held in the spring

This course is required for all cheerleaders who are selected in spring tryouts. Activities of the class involve perfecting gymnastics skills, planning cheers and pep assemblies, and completing other projects to foster school and team spirit. **Guided Enrollment Note: This course will receive P.E. credit.**

## Dance Team 9

PE 610 A/B

Grade Level: 9

Two Semesters - 1.0 credit

Prerequisite: Competitive audition held in the spring

This group performs with the marching band and develops performance skills through character coordination, rhythm and showmanship. In required workshops, students learn basic marching dance and equipment moves. The audition includes 3 days of clinic followed by the actual audition on the 4th day. The selection process includes grades, attendance and attitude along with the audition performance. **Guided Enrollment Note: This course will receive P.E. credit. Performances are after school, evenings, and weekends, and are graded activities.**

## Lifetime Fitness

PE 530

Grade Level: 10, 11, 12

One Semester - 0.5 credit

This course offers the opportunity to participate in lifetime physical fitness activities with a focus on personalized fitness. **Guided Enrollment Note: Prior approval needed for this course to meet graduation credit.**

## Physical Education Activities

PE 525

Grade Level: 10, 11, 12

One Semesters - 0.5 credit

This course offers the opportunity to participate in a variety of lifetime activities which include team and individual games. **Guided Enrollment Note: Prior approval needed for this course to meet graduation credit.**

## Physical Education Concepts

PE 400

Grade Level: 9, 10

Two Semesters - 0.5 credit

This course provides an opportunity for students to participate in a variety of physical activities and learn the value of quality, lifetime physical fitness.

## Strength & Conditioning I

PE 510

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

This course provides the instruction of strength concepts with an emphasis on weight training. **Guided Enrollment Note: Prior approval needed for this course to meet graduation credit. Freshmen taking this course will also complete Health Education which includes instruction regarding health promotion and disease prevention.**

## Strength & Conditioning II

PE 515

Grade Level: 10, 11, 12

One Semester - 0.5 credit

This is an advanced course that provides the instruction of strength concepts with an emphasis on weight training. **Guided Enrollment Note: Prior approval needed for this course to meet graduation credit.**

## Health

PE 405

Grade Level: 9, 10

One Semester - 0.5 credit

This course is designed to provide students with a foundation of health knowledge. Subject matter includes Personal Health and Wellness; Fitness Management; Nutrition; Substance Use, Misuse, Abuse and Addiction; Mental and Emotional Health; and Human Sexuality and Disease Prevention.

# SCIENCE COURSES - LIFE

Course No.	Course Title	Possible Course Level				Credit	21st Cent Acad only	College Now	NCAA Approved	Weighted Grade	GRADUATION REQUIREMENT	Science - Life	Practical & Consumer	Technology
		9	10	11	12									
SC 530 AP/BP	Anatomy & Physiology			•	•	1.0			✓		✓			
SC 515 AP/BP	AP Biology			•	•	1.0		✓	✓	▲	✓			
SC 490 AP/BP	AP Environmental Science			•	•	1.0		✓	✓	▲	✓			
SC 410 AP/BP	Biology	•	•	•	•	1.0			✓		✓			
SC 510 A/B	College Biology			•	•	1.0		✓	✓		✓			
SC 540	Genetics & Biotechnology I			•	•	0.5			✓		✓			
SC 545	Genetics & Biotechnology II			•	•	0.5			✓		✓			
SC 414 A/B 9th	Honors Biology	•				1.0			✓	▲	✓			
SC 420P	Horticulture I		•	•	•	0.5		✓*			✓			
SC 430P	Horticulture II		•	•	•	0.5		✓*			✓			
SC 520 A/B	Student Naturalist			•	•	1.0			✓		✓			
The courses below are available at Olathe North only														
SC 560 A	Advanced Biotechnology: Cellular & Molecular I			•	•	1.0	21		✓		✓	✓	✓	
SC 560 B	Advanced Biotechnology: Cellular & Molecular II			•	•	1.0	21		✓	▲	✓	✓	✓	
SC 525 A/B	Animal Health Investigations	•				1.0	21				✓	✓		
SC 553	Animal Science		•	•		0.5	21				✓			
SC 480 A/B	Aquatic Methods		•	•		1.0	21				✓	✓		
SC 551	Environmental Conservation		•			0.5	21		✓		✓			
SC 535 A/B	Genetic Applications		•			1.0	21		✓		✓			
SC 415	Marine Biology		•	•	•	0.5	21		✓		✓			
SC 495 A/B	Medical Professions Investigations	•				1.0	21				✓	✓		
SC 580 A/B	Medical Professions Senior Capstone				•	1.0	21				✓	✓		
SC 552	Microbiology		•			0.5	21		✓		✓			
SC 554	Wildlife Biology		•	•		0.5	21		✓		✓			
SC 555 A/B	Zoology				•	1.0	21		✓		✓			
The courses below are available at Olathe South only														
SC 640 A/B	Introduction to BioMedical Engineering	•				1.0	21		✓		✓			
SC 642 A/B	BioMedical Engineering I		•			1.0	21		✓		✓		✓	
SC 644 A/B	BioMedical Engineering II			•		1.0	21		✓		✓			
SC 770 A/B	BioMedical Engineering Senior Capstone				•	1.0	21				✓	✓		

✓\* = Horticulture I & Horticulture II must both be taken the same school year to receive College Now Credit.

## Adv. Biotechnology: Cellular & Molecular I SC 560 A

Grade Level: 11, 12  
 One Semester - 1.0 credit  
 Prerequisites: Honors/General Biology & Honors/Chemistry



This course is for students interested in advanced biological studies. Students will develop biotechnology skills of investigation and learn concepts of genetics and developmental biology on a molecular and cellular level. The main focus of this course is on DNA and proteins within living organisms. Students will apply their skills and learning in real-world situations, including student research projects. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Medical Professions Academy.**

## Adv. Biotechnology: Cellular & Molecular II SC 560 B

Grade Level: 11, 12  
 One Semester - 1.0 credit  
 Prerequisite: Advanced Biotechnology: Cellular & Molecular I



This course is a continuation of Advanced Biotech I, going deeper into the knowledge and understanding of proteins and DNA. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Medical Professions Academy.**

# SCIENCE COURSES - LIFE

## Anatomy & Physiology

SC 530 AP/BP



Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Biology

This class is designed for the college-bound student who is considering a career in a professional medical field. The course offers an in-depth study of higher vertebrate anatomy using human models and diagrams. Insight into the functions of human systems is gained through laboratory study of living tissues, dissection and physiology instrumentation. **Guided Enrollment Note: Concurrent or previous enrollment in Chemistry recommended.**

## Animal Health Investigations

SC 525 A/B

Grade Level: 9  
Two Semesters - 1.0 credit



In this lab based course, students will survey animal health topics, including veterinary terminology, animal body systems, veterinary diagnoses and treatments, care and management of animal species, and veterinary math. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Animal Health Academy.**

## Animal Science

SC 553

Grade Level: 10, 11  
One Semester - 0.5 credit



Students will learn how the sciences of genetics, physiology, and nutrition contribute to the improvement of the animal industries as well as gain an introduction to management and production practices. Course topics include: animal breeds, breeding and selection, anatomy, physiology, nutrition, health and sanitation, products and marketing, animal behavior, and current issues in animal science. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Animal Health Academy.**

## AP Biology

SC 515 AP/BP



Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Chemistry

This course is designed to be the equivalent of a college introductory biology course. Students in this course will build a conceptual framework, the factual knowledge and analytical skills to deal critically with the rapidly changing science of biology, and to appreciate science as a process.

## AP Environmental Science

SC 490 AP/BP



Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Biology and Chemistry

This lab and field-based course provides students with the scientific principles, concepts and methodologies required to understand the interrelationships in the natural world, to identify and analyze environmental problems, both natural and human-caused, to evaluate the relative risks associated with these problems, and to examine alternative solutions for reducing and/or preventing them. This course includes concepts from many disciplines of science.

## Aquatic Methods

SC 480 A/B

Grade Level: 10, 11  
Two Semesters - 1.0 credit



Students in the hands-on course will study the closed-environment of ocean ecosystems with multiple salt and fresh water aquaria. Students will study the various filtration systems, conduct water quality studies, analyze data in the chemistry of the water, problem-solve issues and transition new life into the aquaria. Students will select individual and group projects to work on during the course of the year. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Geoscience Academy and is a requirement for endorsement.**

## BioMedical Engineering I

SC 642 A/B

Grade Level: 10  
Two Semesters - 1.0 credit



This course builds on the foundations of biomedical engineering and supports a synthesis of engineering principles within biological disciplines. Students will gain an introductory understanding of chemical engineering as applied to biological systems. Students will also practice principles of ethical and contextualized problem solving while cultivating connections within the professional community. Major projects may include drug delivery systems, testing mechanisms of actions for different types of medications, in depth medical ethics case studies, management of big data, introduction to computer engineering, and developing a bioengineering project for competition. Students may investigate the impact of biomedical engineering within a complex global health landscape. **Guided Enrollment Note: This course is offered only at Olathe South High School as part of the BioMedical Engineering Academy.**

## BioMedical Engineering II

SC 644 A/B

Grade Level: 11  
Two Semesters - 1.0 credit  
Prerequisite: BioMedical Engineering I



This course will further develop students' ability to work in biomedical engineering with greater independence. Students will grow deeper knowledge of biomedical engineering in mechanical, electrical and computer engineering. Students will continue to practice professional engineering behaviors through active collaboration with biomedical engineers in the field. Major projects may include the construction of a simple medical sensor, management of real-time data and 3D printing of prosthetic or diagnostic devices. **Guided Enrollment Note: This course is offered only at Olathe South High School as part of the BioMedical Engineering Academy.**

## BioMedical Engineering Senior Capstone

SC 770 A/B

Grade Level: 12  
Two Semesters - 1.0 credit



This course is a culmination of the 4 year academy plan of study and involves a student initiated Work Based Learning experience or independent research project. The course synthesizes a student's academy learning and helps students further define their post-secondary plans. **Guided Enrollment Note: This course is offered only at Olathe South High School as part of the BioMedical Engineering Academy. Open to BioMedical Engineering Academy students who are meeting academy expectations.**

## Biology

SC 410 AP/BP

Grade Level: 9, 10, 11, 12  
Two Semesters - 1.0 credit



Biology is a lab-oriented course where inquiry problem-solving skills are practiced and refined. The emphasis of the course is on the molecular level, with such topics as biochemistry, genetics and cellular processes. The diversity and evolution of organisms and ecology concepts are included throughout the curriculum.

## College Biology

SC 510 A/B

Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Chemistry



This course is tailored for students planning to pursue a career in a science-related field or for students who desire to complete their college requirement for a natural science credit. The course is structured around contemporary modern biological science concepts and biotechnological principles that are on the forefront of scientific research.

## Environmental Conservation

SC 551

Grade Level: 10  
One Semesters - 0.5 credit


21

This course examines the impact humans have on the environment and strategies to conserve it. Topics include the work of historic naturalists, conservation of natural resources, energy, endangered species, freshwater and marine resources, wildlife rehabilitation, and climate change. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Animal Health Academy.**

## Genetic Applications

SC 535 A/B

Grade Level: 10  
Two Semesters - 1.0 credit


21

Students will participate in several human health case studies. There will be a focus on laboratory skills learning and the integration of community guest speakers. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Medical Professions Academy.**

## Genetics & Biotechnology I

SC 540

Grade Level: 11, 12  
One Semester - 0.5 credit



Students will utilize a hands-on experience with biotechnology skills and protocols used in most clinical and research laboratory facilities. Areas of concentration for this course will be the history and application of biotechnology, basic genetic concepts and techniques, safety, bioethics, microbiology, and biomedical technology.

## Genetics & Biotechnology II

SC 545

Grade Level: 11, 12  
One Semester - 0.5 credit  
Prerequisite: Genetics and Biotechnology I



Students will further augment their skills through a more in depth exploration into the rapidly evolving field of biotechnology. Areas of concentration for this course will include the utilization of microorganisms and genetic modification in the food and agriculture industry, use of genetic techniques in forensic science and drug addiction, focusing on the ethical and safe application of biotechnology. Students will complete the course with a capstone project of their choice that focuses on a global challenge that can be solved with the knowledge gained from the Genetics and Biotechnology course.

## Honors Biology

SC 414 A/B

Grade Level: 9  
Two Semesters - 1.0 credit



Honors Biology is an inquiry-based lab course where reading, writing, and problem-solving skills are integrated throughout the curriculum, culminating with a research project. The topics covered in this course are the same as in Biology but at a faster pace and in greater detail. Honors Biology for engineering students will have an additional emphasis on engineering design for life science applications. **Guided Enrollment Note: For this more challenging course, significant work outside of the class is to be expected. For the class of 2023 and beyond, this course will be a weighted grade.**

## Horticulture I

SC 420P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Biology

This course is designed for the student who is interested in plant studies. Students will be exposed to topics concerning the growth and care of greenhouse plants, woody plants, lawns and those plants grown for food, with an emphasis on environmentally safe methods of pest control. Topics which are project based include: plant propagation, hydroponics, soil testing, gardening and landscape, pest management, conservation and composting. **Guided Enrollment Note: Student may acquire dual credit through JCCC/College Now, when taken same school year as Horticulture II.**

## Horticulture II

SC 430P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Horticulture I

This course is designed for those interested in advanced plant studies. The topics covered in the introductory course will be pursued in greater depth, with an emphasis on individualized projects. Students learn from guest speakers who present topics in various areas of specialty and from several field trips. **Guided Enrollment Note: Student may acquire dual credit through JCCC/College Now, when taken same school year as Horticulture I.**

# SCIENCE COURSES - LIFE

## Introduction to BioMedical Engineering

SC 640 A/B

Grade Level: 9  
Two Semesters - 1.0 credit



21

Introduction to BioMedical Engineering is an introductory course designed to provide students with a basic understanding of how to use the scientific process and engineering design to solve real world health related problems. Fundamental biomedical engineering topics include scientific thinking, design process, exposure to various public health challenges, and design principles to investigate biomedical engineering issues. Students will also be exposed to numerous career pathways and requirements for those careers related to biomedical engineering. A hands on approach will engage students and create interest in and passion for biomedical engineering. Teamwork, creative thinking, and effective communication are important parts of the students' learning experience. **Guided Enrollment Note: This course is offered only at Olathe South High School as part of the BioMedical Engineering Academy.**

## Marine Biology

SC 415

Grade Level: 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Biology



21

This course serves as an introduction to the biology of marine organisms and will present a broad overview of the field. Students will study the anatomy of marine organisms through the observation of live species in 3,000 gallons of aquaria and the dissection of lab specimens. Other topics of study include the marine environment, physical factors influencing marine organisms, marine ecosystems, and the diversity of marine life. It will emphasize classification, distribution, ecology, physiology, major community types and economic impact on marine organisms. **Guided Enrollment Note: This course is an elective for endorsement for students in the Geoscience Academy and is open also to all students at Olathe North High School.**

## Medical Professions Investigations

SC 495 A/B

Grade Level: 9  
Two Semesters - 1.0 credit

21

Students will research the process of pursuing a career in medicine or human health. There will be a focus on laboratory skills learning and the integration of community guest speakers. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Medical Professions Academy.**

## Medical Professions Senior Capstone

SC 580 A/B

Grade Level: 12  
Two Semesters - 1.0 credit

21

This course is a culmination of the 4-year academy plan of study and involves a student Professional Learning Experience. This class provides a culmination activity that synthesizes a student's academy learning and helps students further define their post-secondary plans. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Medical Professions Academy. Open to Medical Professions Academy students who are meeting academy expectations.**

## Microbiology

SC 552

Grade Level: 10  
One Semester - 0.5 credit



21

Students will learn basics in the field of Microbiology. Students will continue to develop laboratory skills, experimental methods, and explore careers in science with an emphasis in the Animal Health field. Laboratory skills, collection of data, and the exploration of microorganisms will be the emphasis in this lab-based class. This course will provide students with a general understanding of microbes, prokaryotic and eukaryotic cells, and domain systems. Topics may include bacterial control, cell structure, fungi, protozoa, viruses, microbial genetics as well as standard lab practices and safety. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Animal Health Academy.**

## Student Naturalist

SC 520 A/B

Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Biology



The student will participate in advanced studies in ecology, natural history and field biology. In addition, students will organize and present small group workshops for groups of District elementary students. Each quarter, students will participate in an environmentally based community service project.

## Wildlife Biology

SC 554

Grade Level: 10, 11  
One Semester - 0.5 credit  
Prerequisites: Biology and Chemistry



21

Students will examine wildlife as a natural resource, with emphasis on principles of ecology, management and identification. The course has three integrated sections: historical and contemporary human dimensions of wildlife ecology and management, understanding the applied aspects of ecological principles that are the foundation for wildlife management, and a zoological approach to identifying various wildlife species. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Animal Health Academy.**

## Zoology

SC 555 A/B

Grade Level: 12  
Two Semesters - 1.0 credit



21

This course is designed to examine major groups of invertebrates and vertebrates found throughout Kingdom Animalia. Emphasis will be placed on body structures and functions, behaviors, and evolutionary relationships among the phyla. Lab components will allow students to examine differences among the phyla. Dissections are a major part of this lab-based class. Veterinary Medicine components also will be included. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Animal Health Academy.**

# SCIENCE COURSES-PHYSICAL

Course No.	Course Title	Possible Course Level				Credit	21st Cent Acad only	College Now	NCAA Approved	Weighted Grade	GRADUATION REQUIREMENT	Practical & Consumer	Science - Physical	Technology
		9	10	11	12									
SC 635 A/B	AP Chemistry			•	•	1.0		✓	✓	▲			✓	
SC 730 A/B	AP College Physics I			•	•	1.0		✓	✓	▲			✓	
SC 735 A/B	AP Physics II				•	1.0			✓	▲			✓	
SC 740 A/B	AP Physics C				•	1.0			✓	▲			✓	
SC 440	Astronomy			•	•	0.5			✓				✓	
SC 610 A/B P	Chemistry		•	•	•	1.0			✓				✓	
SC 630 A/B	College Chemistry			•	•	1.0		✓	✓				✓	
SC 492	Earth Science			•	•	0.5			✓				✓	
SC 625 A/B	Honors Chemistry		•	•	•	1.0			✓	▲		✓		
SC 210 A/B	Physical Science		•	•	•	1.0			✓			✓		
SC 710 A/B	Physics		•	•	•	1.0			✓			✓		
SC 435	Physical Science Investigations I			•	•	0.5						✓		
The courses below are available at Olathe North only														
SC 472 A/B	Advanced Geoscience: Geology/Paleontology			•	•	1.0	21		✓			✓	✓	
SC 470 A/B	Advanced Geoscience: Hydrology/Oceanography			•	•	1.0	21		✓			✓	✓	
SC 473 A/B	Geoscience Applications		•			1.0	21		✓		✓	✓		
SC 471 A/B	Geoscience Investigations	•				1.0	21		✓			✓		
SC 474 A/B	Geoscience Senior Capstone				•	1.0	21				✓	✓		
SC 450	Oceanography	•	•	•	•	0.5	21		✓			✓		

## Advanced Geoscience: Geology/Paleontology SC 472 A/B

Grade Level: 11, 12  
Two Semesters - 1.0 credit



Students will investigate geology and geologic process through hands-on labs and field experiences. Students also will explore paleontology and the history of life on earth as it relates to geologic time as well as work in the paleontology prep lab. Global Information Systems also will be incorporated. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Geoscience Academy and is a choice for endorsement.**

## Advanced Geoscience: Hydrology/Oceanography SC 470 A/B

Grade Level: 11, 12  
Two Semesters - 1.0 credit



Students will investigate and explore the Earth's freshwater resources. Students also will study the fundamentals of oceanography and meteorology. Hands-on projects and field-based activities will be included. Global Information Systems also will be incorporated. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Geoscience Academy and is a choice for endorsement.**

## AP Chemistry SC 635 A/B

Grade Level: 11, 12  
Two Semesters - 1.0 credit



Prerequisite: Chemistry or Honors Chemistry

This course is designed to be the equivalent of the Chemistry I and Chemistry II courses usually taken during the first college year. This course emphasizes chemical calculations, the mathematical formulation of principles, a variety of laboratory experiences, and a focus on the conceptual analyses of chemical processes. Advanced topics include Thermochemistry, Kinetics, Equilibrium, Acid/Base, and Electrochemistry. **Guided Enrollment Note: Physics and Honors Algebra II are recommended prior to AP Chemistry.**

## AP College Physics I SC 730 A/B

Grade Level: 11, 12  
Two Semesters - 1.0 credit



Prerequisites: Honors Algebra II

This course is designed to be the equivalent of the general Physics I course usually taken during the first college year. The course covers Newtonian mechanics (including rotational dynamics and angular momentum), work, energy and power, mechanical waves and sound, fluids and thermal. It also will introduce electric circuits. **Guided Enrollment Note: Physics is recommended prior to and Algebra concurrent with AP College Physics I.**

# SCIENCE COURSES-PHYSICAL

## AP Physics II

SC 735 A/B

Grade Level: 12  
Two Semesters - 1.0 credit  
Prerequisite: AP College Physics I



This course is designed to be the equivalent of a Physics II course usually taken in college. 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.

## AP Physics C

SC 740 A/B

Grade Level: 12  
Two Semesters - 1.0 credit  
Prerequisite: Physics or AP College Physics I



AP Physics C is a calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. It covers kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations; gravitation; electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course.

## Astronomy

SC 440

Grade Level: 11, 12  
One Semester - 0.5 credit



This semester course is a survey of the study of the universe. The purpose of the course is to introduce students to the various fields of study under the main heading of astronomy and to acquaint the student with some of the methods by which astronomers gather information about the universe. Topics of study may include constellations, stars, planets, the sun, the seasons, the moon and its phases, among others. Students may be expected to make night sky observations during the course of the semester. **Guided Enrollment Note: This course is a choice for endorsement in the Geosciences Academy. This course is not offered at Olathe East.**

## Chemistry

SC 610 AP/BP

Grade Level: 10, 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Biology



Chemistry is the study of properties and changes in matter. This study includes the particles that compose matter and how elements and compounds interact. Conceptual understanding is built through visualization, laboratory observation and mathematical representation. **Guided Enrollment Note: Concurrent enrollment in Geometry or higher math is recommended.**

## College Chemistry

SC 630 A/B

Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Chemistry or Honors Chemistry



This course is tailored for students planning to pursue a career or further study in a science-related field and for those who desire to complete their college requirement for a physical science credit. This is an in-depth study of inorganic chemistry. Topics and lab work are based on material offered in a first semester college chemistry course. Lab work is utilized to develop basic concepts that will be covered during classroom discussions.

## Earth Science

SC 492

Grade Level: 11, 12  
One Semester - 0.5 credit



Earth Science offers students a look at the natural processes that occur on Earth. Students will gain an understanding of the processes and interdependence of the earth's systems. Topics encompassing geology, the internal and external processes that shape the surface and the interior of the Earth (mineral formation, rock cycle, plate tectonics, mountain building, geologic time), and meteorology including atmospheric structure, weather forecasts and extreme weather. Students also will explore the impact of humans on the natural environment.

## Geoscience Applications

SC 473 A/B

Grade Level: 10  
Two Semesters - 1.0 credit



21

This course takes skills and knowledge from the Geoscience Investigations course and applies them to different elements of problem-solving, research, design, and professional learning experiences. Students will focus on individual aquarium maintenance skills, GIS mapping skills, and applying those skills to project-based learning. Students also will share their knowledge and skills by developing mini-lessons to teach to local elementary students. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Geoscience Academy and is a requirement for endorsement. This course is open only to students in the Geoscience Academy.**

## Geoscience Investigations

SC 471 A/B

Grade Level: 9  
Two Semesters - 1.0 credit



21

This course serves as an introduction to the Geoscience Academy designed to provide students with a basic understanding of the Geo (earth) sciences: Hydrology, Marine Science, Oceanography, Meteorology, Astronomy, Environmental, Geology, and Paleontology. Students will be introduced to laboratory skills, experimental methods, and careers related to the Geosciences. **Guided Enrollment Note: This course is a requirement for endorsement and only open to students in the Geoscience Academy at Olathe North High School.**

## Geoscience Senior Capstone

SC 474 A/B

Grade Level: 12  
Two Semesters - 1.0 credit

21

This course is a culmination of the 4-year academy plan of study and involves a student Professional Learning Experience. This course synthesizes a student's academy learning and helps students further define their post-secondary plans. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Geoscience Academy and is a requirement for endorsement. Open to Geoscience Academy students who are meeting academy expectations.**

## Honors Chemistry

SC 625 A/B

Grade Level: 10, 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Biology



Honors Chemistry is a comprehensive introduction to the properties and interactions in matter. Course content includes topics from general chemistry, with additional concepts in greater detail at an accelerated pace. **Guided Enrollment Note: Concurrent enrollment in Honors Algebra II or higher math is strongly recommended.**



## Oceanography

SC 450

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

21



Studies will include hands-on lab investigations in the Geoscience lab. Topics will include history of, present structure, exploration, physical and chemical characteristics, as well as the current state of the world's oceans affecting life on earth. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Geoscience Academy and is open to students outside the academy who attend Olathe North.**

## Physical Science

SC 210 A/B

Grade Level: 10, 11, 12

Two Semesters - 1.0 credit



This course explores basic concepts of chemistry and physics by emphasizing problem solving in investigations. Students utilize technology to collect and analyze data in the study of matter, chemical change, energy, motion, electricity, magnetism, sound and light.

## Physics

SC 710 A/B

Grade Level: 10, 11, 12

Two Semesters - 1.0 credit



This course places emphasis on learning how to develop concepts and relate them to one another through laboratory experiences. Major emphasis is on the fields of measurement, kinematics (motion), dynamics (mechanical and gravitational forces), momentum and kinetic and potential energy. **Guided Enrollment Note: Geometry is recommended concurrent with Physics.**

## Physical Science Investigations I

SC 435

Grade Level: 11, 12

One Semester - 0.5 credit

Prerequisite: Biology



This course includes topics of study expanding students' previous physical science knowledge by offering new applications of concepts in a real world perspective. Applications will include engineering, environmental, biological, chemical, and technological sciences.

# SOCIAL STUDIES COURSES

Course No.	Course Title	Possible Course Level				Credit	College Now	eLearning available	NCAA Approved	Weighted Grade	GRADUATION REQUIREMENT	Applied Communication	Practical & Consumer	Social Studies
		9	10	11	12									
SS 460 A/B	AP European History		•	•	•	1.0	✓		✓	▲			✓	
SS 640 A/B	AP Psychology			•	•	1.0	✓		✓	▲		✓	✓	
SS 515 AP/BP	AP United States History			•	•	1.0	✓		✓	▲			✓	
SS 715P	AP United States Government and Politics				•	0.5	✓		✓	▲			✓	
SS 445	Black American History		•	•	•	0.5			✓		✓		✓	
SS 612P	Business Economics	•	•	•	•	0.5						✓	✓	
SS 440	Contemporary Issues		•	•	•	0.5			✓				✓	
SS 630	Introduction to Psychology		•	•	•	0.5		📖	✓		✓	✓	✓	
SS 415	Honors World Geography		•	•	•	0.5			✓	▲			✓	
SS 215 A/B	Honors Modern World History	•				1.0			✓	▲			✓	
SS 412	Human Geography	•	•	•	•	0.5		📖	✓				✓	
SS 210 A/B	Modern World History	•				1.0		📖	✓				✓	
SS 620	Sociology		•	•	•	0.5			✓				✓	
SS 710P	United States Government				•	0.5		📖	✓				✓	
SS 510 AP/BP	United States History			•	•	1.0		📖	✓				✓	
SS 448	Women's Studies		•	•	•	0.5			✓		✓		✓	
<b>The course below is available at Olathe North only</b>														
SS 645	Sports Psychology		•	•	•	0.5						✓	✓	

## AP European History

SS 460 A/B

Grade Level: 10, 11, 12  
Two Semesters - 1.0 credit



This is an academically rigorous course designed to help students develop strong disciplinary literacy skills in reading and writing consistent with a college level course. This class will cover the development of western civilization in Europe from the Renaissance through the turn of the 21st Century.

## AP Psychology

SS 640 A/B

Grade Level: 11, 12  
Two Semesters - 1.0 credit



This is an academically rigorous course designed to prepare students for the AP Psychology exam. Units emphasized include approaches and theories, sensation and perception, principles of learning, personality and psychological disorder, human growth and development, neurobiology, cognition and memory learning, states of consciousness, experimentation, social psychology, motivation and emotion. **Guided Enrollment Note: Introduction to Psychology is NOT a pre-requisite for this course.**

## AP United States History

SS 515 AP/BP

Grade Level: 11, 12  
Two Semesters - 1.0 credit



This is an academically rigorous course that meets the United States History graduation requirement. This course provides a chronological narrative survey of American history from the pre-colonial period to the present.

## AP United States Government & Politics

SS 715P

Grade Level: 12  
One Semester - 0.5 credit



This is an academically rigorous course that meets the United States Government graduation requirement. This course meets the same course content goals and objectives as United States Government at an accelerated pace and to meet requirements established by College Board.

## Black American History

SS 445

Grade Level: 10, 11, 12  
One Semester - 0.5 credit



A semester elective course that examines the history and culture of Africa and Black American experience in an interdisciplinary format, including an analysis of the unique historical, cultural, political, and social developments from the Middle Passage to the present day. The course will celebrate, honor, and recognize the contributions and achievements of Black Americans in the United States. Critical thinking, reading, writing, and oral presentation skills are emphasized. Students of all races, ethnicities, and genders are encouraged to enroll.

## Business Economics SS 612P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Business Economics integrates economic principles of free market economy, consumerism, and the role of American government within the economic system with entrepreneurship/business concepts (such as marketing principles, business law, and risk). Student will learn basic macroeconomic and microeconomic theory, fiscal and monetary policies, the role and significance of international economics and government trade and regulatory policies.

## Contemporary Issues SS 440

Grade Level: 10, 11, 12  
One Semester - 0.5 credit



This course allows students to understand, analyze, assess, and appraise global events and historical contexts. Students will apply the lessons of the past in comprehending the events of the present day.

## Honors Modern World History SS 215 A/B

Grade Level: 9  
Two Semesters - 1.0 credit



This course is open to students who desire a challenge in their study of world history. Students will explore world history through selected topics from the Renaissance through the 20th century. Focus themes for this course include geography, social, political, religious, human-environment interaction, technologies, and economics. Students will examine primary and secondary sources to investigate world history using historical thinking skills. Activities will be designed to help prepare students for Advanced Placement social studies courses.

## Honors World Geography SS 415

Grade Level: 10, 11, 12  
One Semester - 0.5 credit



This course focuses on world geography through the themes of location, place, human-environment interaction, movement and region. Students examine primary and secondary sources to investigate world geography using historical thinking skills. Activities will be designed to help prepare students for Advanced Placement social studies courses.

## Human Geography SS 412

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit



In this course, students will explore the reciprocal relationship between how humans have understood, used, and changed the earth's surface, and how the earth has informed human behavior and activity. Students will examine patterns of human population, migration, land use, and cultural practices.

## Introduction to Psychology SS 630

Grade Level: 10, 11, 12  
One Semester - 0.5 credit



This course focuses on an introduction to psychology through the topics of scientific inquiry and research methods, biological bases of behavior, cognitive psychology, learning and development, social and personality, and mental and physical health.

## Modern World History SS 210 A/B

Grade Level: 9  
Two Semesters - 1.0 credit



This course focuses on world history through selected topics from the Renaissance through the 20th century. Focus themes for this course include geography, social, political, religious, human-environment interaction, technologies, and economics. Students will examine primary and secondary sources to investigate world history using historical thinking skills.

## Sociology SS 620

Grade Level: 10, 11, 12  
One Semester - 0.5 credit



This course is an introduction to the fascinating world of sociology where students are given the opportunity to interact with individuals from a variety of settings. Topics include: crime, diverse cultural responses to situations in society, the influence of the media on society, and exploring demographics of communities (races, religions, economics, age). Students will have the opportunity to interact with the people both in and outside their school community.

## Sports Psychology SS 645

Grade Level: 10, 11, 12  
One Semester - 0.5 credit

This introduction to fitness and sports psychology is both content driven and skill-based. Students will learn about conditioning, punishment, motivation, social issues, gender differences, aggression and violence, the media, ethical concerns of sports, diversity issues, and more. Students will leave class with the skills of focus and mental toughness that will optimize their chances for dealing with sport and life-related stress. **Guided Enrollment Note: This course is offered only at Olathe North High School.**

## United States Government SS 710P

Grade Level: 12  
One Semester - 0.5 credit



This course examines the origins, development, organizations, power, and actual working of American government and emphasizes the change and developments in recent years, and emphasizes the impact and effects on the student's daily lives.

## United States History SS 510 AP/BP

Grade Level: 11, 12  
Two Semesters - 1.0 credit



This course provides a chronological and/or thematic study of American history from the late nineteenth century to the present.

## Women's Studies SS 448

Grade Level: 10, 11, 12  
One Semester - 0.5 credit



The main focus of this course will be women and their societal advancement throughout history. This course will provide knowledge about the social role of women and their involvement in areas such as health, history, and political activism. The course will also provide knowledge about gender stereotypes and how this affects the learning process. We encourage students of any gender to enroll in this class.

# SPECIAL COURSES

Course No.	Course Title	Possible Course Level				Credit	21st Century Academy only	GRADUATION REQUIREMENT	Applied Communication	English	Math	Fine Arts	Science-Physical	Practical & Consumer	Social Studies	Technology	Individual Focus
		9	10	11	12												
WW 445 A/B	AVID 9	•				1.0		✓									
WW 450 A/B	AVID 10		•			1.0		✓						✓			
WW 455 A/B	AVID 11			•		1.0		✓						✓			
WW 460 A/B	AVID 12				•	1.0		✓						✓			
YA 420	College Readiness Skills			•	•	0.5								✓			
WW 500	Driver's Education	•	•	•	•	0.5								✓			
WW 240 A/B	DS Cross Cultural Expeditions	•				1.0	21	✓							✓	✓	
WW 255 A/B	DS Senior Capstone (ELA)				•	1.0	21							✓	✓	✓	
WW 258 A/B	DS Senior Capstone (Math)				•	1.0	21							✓	✓	✓	
WW 261 A/B	DS Senior Capstone (Science)				•	1.0	21							✓	✓	✓	
WW 264 A/B	DS Senior Capstone (Political Science)				•	1.0	21							✓	✓	✓	
WW 267 A/B	DS Senior Capstone (Visual Arts)				•	1.0	21							✓	✓	✓	
WW 253 A/B	DS Symposium ELA (10)		•			1.0	21							✓	✓	✓	
WW 254 A/B	DS Symposium ELA (11)			•		1.0	21							✓	✓	✓	
WW 256 A/B	DS Symposium Math (10)		•			1.0	21							✓	✓	✓	
WW 257 A/B	DS Symposium Math (11)			•		1.0	21							✓	✓	✓	
WW 259 A/B	DS Symposium Science (10)		•			1.0	21							✓	✓	✓	
WW 260 A/B	DS Symposium Science (11)			•		1.0	21							✓	✓	✓	
WW 262 A/B	DS Symposium Political Science (10)		•			1.0	21							✓	✓	✓	
WW 263 A/B	DS Symposium Political Science (11)			•		1.0	21							✓	✓	✓	
WW 265 A/B	DS Symposium Visual Arts (10)		•			1.0	21							✓	✓	✓	
WW 266 A/B	DS Symposium Visual Arts (11)			•		1.0	21							✓	✓	✓	
YA 710G	Gifted Services	•	•	•	•	0.5 or 1.0											
YA 430S	Interpersonal Skills	•	•	•	•	0.5		✓						✓			
ZZ 510 A/B	Office Assistant			•	•	0.5 or 1.0											
YA 415	Guided Study	•	•	•	•	0.5 or 1.0											✓
YA 480	Peer Mentor for Interpersonal Skills Class		•	•	•	1.0		✓						✓			
YA 700 AR/BR	Resource	•	•	•	•	0.5 or 1.0											
ZZ 610 A/B	Teacher Assistant			•	•	0.5 or 1.0											

Not all courses are available in each building. Please enroll through counselor guidance.

## AVID 9

WW 445 A/B

Grade Level: 9  
Two Semesters - 1.0 credits

The 9th grade AVID course is an elective class for students who are college bound. While concurrently enrolled in a college-prep course of study, students learn strategies to enhance success. Students will learn time management, practice goal-setting skills, create a four-year academic plan, demonstrate note-taking skills, work effectively in collaborative groups, and learn strategies for test preparation. **Guided Enrollment Note: This course is open by application and interview only.**

## AVID 10

WW 450 A/B

Grade Level: 10  
Two Semesters - 1.0 credits

The 10th grade AVID course is an elective class for students who are college bound. While concurrently enrolled in a college-prep course of study, students learn strategies to enhance success. To ensure success in college-prep course work, students work individually, as well as in tutored collaborative groups. **Guided Enrollment Note: This course is open by application and interview only.**

## AVID 11 WW 455 A/B

Grade Level: 11  
Two Semesters - 1.0 credits

The 11th grade AVID course is an elective class for students who are college bound. While concurrently enrolled in a college-prep course of study, students learn strategies to enhance success. To ensure success in college-prep course work, students work individually, as well as in tutored collaborative groups. Note-taking, outlining, writing, speaking, reading, test-taking strategies, and self-awareness are stressed. In addition, the course includes college motivational and career exploration activities. **Guided Enrollment Note: This course is open by application and interview only.**

## AVID 12 WW 460 A/B

Grade Level: 12  
Two Semesters - 1.0 credits

12th grade AVID is the culmination of a student's years in the AVID program, and the course involves substantial critical reading, writing and preparation for graduation requirements. Students enrolled in AVID 12 engage in analytical discourse in subjects across the curriculum. In addition, students make oral presentations to the class on topics related to college entrance, contemporary issues, and social concerns. AVID 12 employs adult tutors who lead discussions and analysis of the academic subjects in which the students are enrolled. AVID 12 students, working with the tutors, are expected to participate in and eventually act as moderators for Socratic seminars. Moreover, students in this course will learn about applying for colleges and scholarships and if desired, complete such applications. **Guided Enrollment Note: This course is open by application and interview only.**

## College Readiness Skills YA 420

Grade Level: 11, 12  
One Semester - 0.5 credit

Students will develop an understanding of and strategies for college admission and future college success through self-discovery and research. Students will use their own standardized testing data, XELLO assessments, and their Individual Plan of Study to develop strategies to reach their personal college and career goals.

## Driver's Education WW 500

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

To take Driver's Education, students must be at least 14 years old before the first day of class and they must have a valid driving instruction permit. The classroom part of the program will meet for 36 hours and the road portion will consist of 6 hours of actual practice driving and up to 6 hours of driving observation. This program is designed to give a student a sound basis of procedure knowledge, rules of the road, driving laws, and values involved in operating a motor vehicle in a safe and defensive manner. The driving program will consist of orientation to the car, basic driving procedures, turning the car around, parking the car, driving in reverse, driving on the highway, and residential practice driving. At the end of the class, students will receive a letter grade. This class takes place after school hours and costs around \$300. Class fee is subject to change. After successful completion of the course, a certificate of completion will be issued, after which a student may be issued a permanent driver's license.

## DS Cross Cultural Expeditions WW 240 A/B

Grade Level: 9  
Two Semesters - 1.0 credit

21

Students will use Expeditionary Learning strategies and participate in Expeditionary Learning investigations that integrate the five curricular Distinguished Scholars areas. Students will build relationships with each other and become familiar with the Distinguished Scholars content areas. By course end, students who have met the required criteria will be eligible to choose a content area to enter for the next year. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Distinguished Scholars Academy.**

## DS Senior Capstone

ELA	WW 255 A/B
Math	WW 258 A/B
Science	WW 261 A/B
Political Science	WW 264 A/B
Visual Arts	WW 267 A/B

Grade Level: 12  
Two Semesters - 1.0 credit

21

This course is a culmination of the 4-year academy plan of study and involves a student Professional Learning Experience. This class provides a culmination activity that synthesizes a student's academy learning and helps students further define their post-secondary plans. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Distinguished Scholar Academy.**

## DS Symposium

ELA 10	WW 253 A/B
ELA 11	WW 254 A/B
Math 10	WW 256 A/B
Math 11	WW 257 A/B
Science 10	WW 259 A/B
Science 11	WW 260 A/B
Political Science 10	WW 262 A/B
Political Science 11	WW 263 A/B
Visual Arts 10	WW 265 A/B
Visual Arts 11	WW 266 A/B

Grade Level: 10, 11  
Two Semesters - 1.0 credit

21

This course is research-based involving all of the DS program areas. Through the Expeditionary Learning model, a topic is chosen for active investigation. Students conduct research through primary sources, expert speakers, and field work. Students analyze, assess, and appraise current events and historical contexts. Students will apply the lessons of the past in comprehending the events of the present day. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Distinguished Scholars Academy.**

# SPECIAL COURSES

## Gifted Services

YA 710G

Grade Level: 9, 10, 11, 12  
One or Two Semesters - 0.5 - 1.0 credit

This special services course offers enrichment opportunities and activities beyond what can be provided in the general education setting. Coursework can be based upon the General Education curriculum with enhanced and differentiated materials to master course objectives, make progress toward IEP goals and objectives, or the opportunity to explore an area of interest in greater depth. **Guided Enrollment Note: Placement in this class is by Special Education action only.**

## Guided Study

YA 415

Grade Level: 9, 10, 11, 12  
One or Two Semesters - 0.5 - 1.0 credit

Students needing additional instructional time to master academic concepts may be assigned to this course. Students seeking time to complete rigorous coursework may also enroll.

## Interpersonal Skills

YA 430S

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This special services course teaches effective communication and interpersonal skills. Special services students will learn to establish positive staff and peer relationships, work within diverse teams, and communicate orally and in writing in a manner that facilitates a successful relay of information. **Guided Enrollment Note: Placement in this class is by Special Education action only.**

## Office Assistant

ZZ 510 A/B

Grade Level: 11, 12  
One or Two Semesters - 0.5 - 1.0 credit

Students will be assigned to assist in duties within the school offices. They will receive training in the area of their responsibility which may include: telephone techniques, office machines, public relations, filing procedures and work ethics, as well as communication skills. Students successfully completing the program will have practical experience to enhance employability skills. This course may be repeated for credit.

## Peer Mentor for Interpersonal Skills class

YA 480

Grade Level: 10, 11, 12  
Two Semesters - 1.0 credit

Peer mentors are enrolled in the Interpersonal Skills course. They model positive social and academic interactions with special services students enrolled in the class. In their roles as student educators, mentors must be responsible, work well with others, and display a positive attitude in both the school and community settings. They work collaboratively with the teacher and students in one-on-one and group settings. **Guided Enrollment Note: Application is required.**

## Resource

YA 700 AR/BR

Grade Level: 9, 10, 11, 12  
One or Two Semesters - 0.5 - 1.0 credit

This special services course offers academic, socio-emotional, and behavioral support for students with a variety of disabilities. Coursework is based upon the general education curriculum using differentiated materials to provide support for these unique learners as they progress toward IEP goals and objectives and graduation. **Guided Enrollment Note: Placement in this class is by Special Education action only.**

## Teacher Assistant

ZZ 610 A/B

Grade Level: 11, 12  
One or Two Semesters - 0.5 - 1.0 credit

Students enrolled as teacher assistants should perform work as described in a job description filed by the supervising teacher and approved by the building principal. The duties, of an educational nature, should justify the work for one period per day. This course may be repeated.

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	GRADUATION REQUIREMENT	Applied Communication	Practical & Consumer	Technology
		9	10	11	12						
IT 430P	Architecture Design I	•	•	•	•	0.5	T		✓	✓	
IT 440P	Architecture Design II	•	•	•	•	0.5	T		✓	✓	
IT 565 AP/BP	Construction Principles (Geometry in Construction)	•	•	•		1.0	T		✓	✓	
IT 411P	Engineering Drafting/CAD I	•	•	•	•	0.5	T		✓	✓	
IT 420P	Engineering Drafting/CAD II	•	•	•	•	0.5	T		✓	✓	
IT 405P	Introduction to Technology Education	•	•			0.5	I		✓	✓	
IT 560AP	Research & Design for Architecture I			•	•	0.5	A		✓	✓	
IT 560BP	Research & Design for Architecture II			•	•	0.5	A		✓	✓	
IT 820P	Video Production I	•	•	•	•	0.5	T	✓	✓	✓	
IT 900 AP/BP	Video Production II			•	•	1.0	A	✓	✓	✓	
IT 600P	Woodworking & Design I	•	•	•	•	0.5	T		✓	✓	
IT 605P	Woodworking & Design II	•	•	•	•	0.5	T		✓	✓	

### Architecture Design I IT 430P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This course provides a study of the fundamental principles of architectural design common to buildings, bridges, homes, and other structural frameworks. Students may design homes or commercial buildings, construct models, create construction and presentation drawings and develop design presentations including boards, models and 3D computer generated renderings and animations.

### Architecture Design II IT 440P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Architecture Design I

This advanced architectural drawing course will focus on communication skills used by professionals in various fields of architecture and design. Projects are developed to simulate real-world design problems using 3D computer generated modeling. This course is recommended for any student interested in a career in one of the many related fields of Architecture or CAD technology.

### Construction Principles (Geometry in Construction) IT 565 AP/BP

Grade Level: 9, 10, 11  
Two Semesters - 1.0 credit

This technical level course is designed to instruct students in woodworking and various materials common to construction and manufacturing, architecture and engineering industries. **Guided Enrollment Note: This course is 1 part of the 2-hour block for Geometry in Construction. Students should also enroll in MA 540A/P Geometry. Material cost for individual projects. Fee scholarships available.**

### Engineering Drafting/CAD I IT 411P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This course will help students learn to utilize CAD software as a design tool for engineering, as well as fundamentals of manual orthographic drawings. Several forms of graphic and electronic communication are explored. Students are exposed to graphic design, problem-solving, research and design, and model construction. This class introduces students to 3D computer generated modeling and design.

### Engineering Drafting/CAD II IT 420P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Engineering Drafting/CAD I

This drawing course will focus on communication skills used by professionals in various fields of engineering. 3D computer generated modeling and design is the primary technical skill applied in this class. Students are presented with problem-solving situations involving the various types of communication systems. This course is recommended for any student interested in a career in one of the many related fields of Engineering or CAD technology.

### Introduction to Technology Education IT 405P

Grade Level: 9, 10  
One Semester - 0.5 credit

This introductory level, technology-based class will introduce students to Engineering Design, Architectural Design and Production/Manufacturing Technology. Students will learn fundamentals of manufacturing and construction technology, create computer-aided drawings, production of prototypes, as well as research historical and future technology issues.

## Research & Design for Architecture I

IT 560AP

Grade Level: 11-12

One Semester - 0.5 credit

Prerequisite: 1.0 credit from following courses:

Introduction to Technology Education; Architecture Design I/II; Engineering Drafting/CAD I/II; or Production Technology I/II.

Students enrolled in this course will use advanced design/communication principles to create real-world projects or simulations. Projects will include professional client communication, covering specific topics in design and pre-construction to include management and "green design" skills. Students will work collaboratively focusing on the design process and team efficiencies. Teaming models such as Six Sigma will be applied to develop highly efficient production techniques. Skills learned in this class will help them to become highly competent design professionals.

## Research & Design for Architecture II

IT 560 BP

Grade Level: 11-12

One Semester - 0.5 credit

Prerequisite: Research &amp; Design for Pre-Construction I

Students in this advanced class will work with a client to develop a client driven product. They will produce a presentation and construction drawings as well as a working prototype (graphic or physical) using advanced software and/or equipment. Researching new technologies to meet future client needs will take place, covering specific topics in design and construction to include management and "green design" skills. Students will develop abilities in design/planning and visual communication in current architectural practices. Students will manipulate materials and design/manufacturing and construction processes to meet client needs with set project goals and timelines.

## Video Production I

IT 820P

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

This course focuses on the basic concepts of video production for a variety of uses. Students integrate a variety of communications with an emphasis on broadcasting, video production and music production. Topics include analyzing the pre-production, production and post-production process, as well as explore the equipment and techniques used to develop a quality video production. **Guided Enrollment Note: Out-of-class time is required. A lab fee may be required. Fee scholarships are available.**

## Video Production II

IT 900 AP/BP

Grade Level: 11, 12

Two Semesters - 1.0 credit

Prerequisite: Video Production I

This course builds on the technical knowledge gained in Video Production I by allowing students to orchestrate projects from setting the objectives to the post-production evaluation. Emphasis is placed on the production of public service announcements, features, documentaries, broadcasting, radio disc-jockey, and special event or highlight videos. The focus of the course is on the entire process of planning the presentation, setting up the studio, acting as videographer and editor to make a fluid and seamless product. **Guided Enrollment Note: Out-of-class time is required. Students should complete an application prior to spring enrollment. This course may be repeated by permission of the instructor.**

## Woodworking & Design I

IT 600P

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

This technical level course is designed to instruct students in woodworking and various materials common to construction and manufacturing, architecture and engineering industries. **Guided Enrollment Note: Material cost for individual projects. Fee Scholarships are available.**

## Woodworking & Design II

IT 605P

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

This technical level course is the 2nd of a series designed to instruct students in woodworking and various materials common to construction and manufacturing, architecture and engineering industries. Students will advance their learning in the production design process. **Guided Enrollment Note: Material cost for individual projects. Fee Scholarships are available.**



Course No.	Course Title	Possible Course Level				Credit	College Now	NCAA Approved	Weighted Grade	Applied Communication
		9	10	11	12					
FL 700 A/B	American Sign Language I	•	•	•	•	1.0		✓		✓
FL 705 A/B	American Sign Language II		•	•	•	1.0		✓		✓
FL 708 A/B	American Sign Language III			•	•	1.0		✓		✓
FL 410 A/B	French I	•	•	•	•	1.0		✓		✓
FL 420 A/B	French II	•	•	•	•	1.0		✓		✓
FL 430 A/B	French III		•	•	•	1.0		✓		✓
FL 440 A/B	French IV			•	•	1.0	✓	✓		✓
FL 450 A/B	AP French V				•	1.0	✓	✓	▲	✓
FL 510 A/B	German I	•	•	•	•	1.0		✓		✓
FL 520 A/B	German II		•	•	•	1.0		✓		✓
FL 530 A/B	German III			•	•	1.0	✓	✓		✓
FL 540 A/B	German IV				•	1.0	✓	✓	▲	✓
FL 610 A/B	Spanish I	•	•	•	•	1.0		✓		✓
FL 620 A/B	Spanish II	•	•	•	•	1.0		✓		✓
FL 630 A/B	Spanish III		•	•	•	1.0		✓		✓
FL 640 A/B	Spanish IV			•	•	1.0	✓	✓		✓
FL 650 A/B	AP Spanish V				•	1.0	✓	✓	▲	✓
FL 635 A/B	Spanish for Heritage Speakers I	•	•	•	•	1.0		✓		✓
FL 645 A/B	Spanish for Heritage Speakers II	•	•	•	•	1.0		✓		✓
FL 647 A/B	Spanish for Heritage Speakers III	•	•	•	•	1.0		✓		✓
<b>The courses below are available at Olathe Northwest only</b>										
FL 740 A/B	Japanese I	•	•	•	•	1.0		✓		✓
FL 750 A/B	Japanese II		•	•	•	1.0		✓		✓
FL 760 A/B	Japanese III			•	•	1.0		✓		✓
FL 770 A/B	Japanese IV				•	1.0		✓	▲	✓

**GRADUATION REQUIREMENT**

**American Sign Language I** FL 700 A/B  
 Grade Level: 9, 10, 11, 12   
 Two Semesters - 1.0 credit

This course is an introductory course to American Sign Language (ASL) that establishes a novice range of communication skills. Students learn how to communicate about themselves and others related to everyday life. This course emphasizes the cultural practices distinct to those that approach the world from a visual perspective. Topics include historical events that have impacted the language and culture of the D/deaf community, the distinct cultural practices, and the comparison of language features. In order to promote language proficiency, much of this class is taught in ASL.

**American Sign Language II** FL 705 A/B  
 Grade Level: 10, 11, 12   
 Two Semesters - 1.0 credit

Prerequisite: American Sign Language I or equivalent proficiency  
 This course builds upon student's language proficiency in ASL. Students move from basic communication to extended dialog and expression. Students learn how to communicate about the world around them while enhancing their expressive and receptive skills. This course emphasizes the cultural practices distinct to those that approach the world from a visual perspective. Students take a deeper look at the culture of the D/deaf community. In order to promote language proficiency, most of this class is taught in ASL.

# WORLD LANGUAGE COURSES

## American Sign Language III

FL 708 A/B



Grade Level: 11, 12

Two Semesters - 1.0 credit

Prerequisite: American Sign Language II or equivalent proficiency

The purpose of this course is to enable students to enhance their proficiency through a linguistic, communicative, and cultural approach to language learning. There is a continued emphasis on the development of receptive and expressive signing skills. Experiences with American Sign Language and Deaf literature are broadened. Cross-cultural understanding is fostered, and real-life applications are emphasized throughout the course. In order to promote language proficiency, the class is taught in ASL.

## French I

FL 410 A/B



Grade Level: 9, 10, 11, 12

Two Semesters - 1.0 credit

This class at the Novice Mid proficiency level is designed for students who have had little or no experience learning French. Students learn about the Francophone culture and learn to communicate in the context of ordinary, daily situations. In order to promote language proficiency, much of this class is taught in French.

## French II

FL 420 A/B



Grade Level: 9, 10, 11, 12

Two Semesters - 1.0 credit

Prerequisite: French I or equivalent proficiency

This class at the Novice High proficiency level uses authentic materials to increase students' cultural understanding of the Francophone world and to expand their language ability related to ordinary, daily situations. In order to promote language proficiency, most of this class is taught in French.

## French III

FL 430 A/B



Grade Level: 10, 11, 12

Two Semesters - 1.0 credit

Prerequisite: French II or equivalent proficiency

This class at the Intermediate Low proficiency level increases students' language ability to function in social situations outside the classroom. Students use authentic materials to learn about and discuss familiar topics related to the Francophone world around them. Most of this class is taught in French.

## French IV

FL 440 A/B



Grade Level: 11, 12

Two Semesters - 1.0 credit

Prerequisite: French III or equivalent proficiency

In this class at the Intermediate Mid proficiency level, students use authentic materials to learn about and discuss global contemporary issues of the Francophone world. Students investigate the history of the Francophone world through the study of cultural products such as literature, art, news media, and music. This class is taught in French.

## AP French V

FL 450 A/B



Grade Level: 12

Two Semesters - 1.0 credit

Prerequisite: French IV or equivalent proficiency

In this class at the Intermediate High proficiency level, students expand their language ability by taking a deeper look at the cultural practices, products, and perspectives of the Francophone world. Students investigate and present on global contemporary issues and other topics of interest. This class is taught in French.

## German I

FL 510 A/B



Grade Level: 9, 10, 11, 12

Two Semesters - 1.0 credit

This class at the Novice Mid proficiency level is designed for students who have had little or no experience learning German. Students learn about the German-speaking culture and learn to communicate in the context of ordinary, daily situations. In order to promote language proficiency, much of this class is taught in German.

## German II

FL 520 A/B



Grade Level: 10, 11, 12

Two Semesters - 1.0 credit

Prerequisite: German I or equivalent proficiency

This class at the Novice High proficiency level uses authentic materials to increase students' cultural understanding of the German-speaking world and to expand their language ability related to ordinary, daily situations. In order to promote language proficiency, most of this class is taught in German.

## German III

FL 530 A/B



Grade Level: 11, 12

Two Semesters - 1.0 credit

Prerequisite: German II or equivalent proficiency

This class at the Intermediate Low proficiency level increases students' language ability to function in social situations outside the classroom. Students use authentic materials to learn about and discuss familiar topics related to the German-speaking world around them. Most of this class is taught in German. Students have the opportunity to take national and international proficiency exams.

## German IV

FL 540 A/B



Grade Level: 12

Two Semesters - 1.0 credit

Prerequisite: German III or equivalent proficiency

In this class at the Intermediate Mid proficiency level, students use authentic materials to learn about and discuss global contemporary issues of the German-speaking world. Students investigate the history of the German-speaking world through the study of cultural products such as literature, art, news media, and music. This class is taught in German. Students have the opportunity to take national and international proficiency exams.

## Japanese I

FL 740 A/B

Grade Level: 9, 10, 11, 12  
Two Semesters - 1.0 credit



Students will master two of the three Japanese writing systems while building the communicative skills in reading, listening, writing and speaking while integrating important cultural and historical concepts. Class time is focused on the application of concepts and the development of interactive level-appropriate communication skills. **Guided Enrollment Note: Japanese is a program located at Olathe Northwest High School. Students must apply for a transfer to participate in this program.**

## Japanese II

FL 750 A/B

Grade Level: 10, 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Japanese I or equivalent proficiency



Students will continue to develop communicative skills in reading, writing, listening and speaking while integrating important cultural and historical concepts. Class time is focused on the application of concepts and the development of interactive level-appropriate communication skills. **Guided Enrollment Note: Japanese is a program located at Olathe Northwest High School. Students must apply for a transfer to participate in this program.**

## Japanese III

FL 760 A/B

Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Japanese II or equivalent proficiency



Students will refine their communication skills through a variety of methods including authentic materials. Historical and contemporary Japanese topics will also be researched. Class time is focused on the application of concepts and the development of interactive level-appropriate communication skills. **Guided Enrollment Note: Japanese is a program located at Olathe Northwest High School. Students must apply for a transfer to participate in this program.**

## Japanese IV

FL 770 A/B

Grade Level: 12  
Two Semesters - 1.0 credit  
Prerequisite: Japanese III or equivalent proficiency



Students will be able to engage in routine social interactions sustaining conversation and discussions in Japanese through various methods including the use of authentic materials. Historical and contemporary Japanese topics will also be further researched. Class time is focused on the application of concepts and the development of interactive level-appropriate communication skills. **Guided Enrollment Note: Japanese is a program located at Olathe Northwest High School. Students must apply for a transfer to participate in this program.**

## Spanish I

FL 610 A/B

Grade Level: 9, 10, 11, 12  
Two Semesters - 1.0 credit



This class at the Novice Mid proficiency level is designed for students who have had little or no experience learning Spanish. Students learn about the Hispanic culture and to communicate in the context of ordinary, daily situations. In order to promote language proficiency, much of this class is taught in Spanish.

## Spanish II

FL 620 A/B

Grade Level: 9, 10, 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Spanish I or equivalent proficiency



This class at the Novice High proficiency level uses authentic materials to increase students' cultural understanding of the Hispanic world and to expand their language ability related to ordinary, daily situations. In order to promote language proficiency, most of this class is taught in Spanish.

## Spanish III

FL 630 A/B

Grade Level: 10, 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Spanish II or equivalent proficiency



This class at the Intermediate Low proficiency level increases students' language ability to function in social situations outside the classroom. Students use authentic materials to learn about and discuss familiar topics related to the Hispanic world around them. Most of this class is taught in Spanish.

## Spanish IV

FL 640 A/B

Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Spanish III or equivalent proficiency



In this class at the Intermediate Mid proficiency level, students use authentic materials to learn about and discuss global contemporary issues of the Hispanic world. Students investigate the history of the Hispanic world through the study of cultural products such as literature, art, news media, and music. This class is taught in Spanish.

## AP Spanish V

FL 650 A/B

Grade Level: 12  
Two Semesters - 1.0 credit  
Prerequisite: Spanish IV or equivalent proficiency



In this class at the Intermediate High proficiency level, students expand their language ability by taking a deeper look at the cultural practices, products, and perspectives of the Hispanic world. Students investigate and present on global contemporary issues and other topics of interest. This class is taught in Spanish.

## Spanish for Heritage Speakers I

FL 635 A/B

Grade Level: 9, 10, 11, 12  
Two Semesters - 1.0 credit



This course is designed specifically for heritage students who have already gained speaking and listening proficiency in Spanish in a home or other community setting in the United States. Students will strengthen their reading and writing skills in Spanish through study and discussion of language structure, cultural and current events, and academic language. This class is conducted entirely in Spanish. Successful completion of this course will enable students to enroll in an upper-level Spanish class. Students may be asked to complete a language assessment to determine proper placement in this course.

**Spanish for Heritage Speakers II**

FL 645 A/B

Grade Level: 9, 10, 11, 12



Two Semesters - 1.0 credit

Prerequisite: Spanish for Heritage Speakers I

This course is designed specifically for heritage students who have already gained speaking and listening proficiency in Spanish in a home or other community setting in the United States. Students continue to build on their academic skills in the Spanish language through the study and discussion of language structure, cultural and current events. Additionally, this course introduces students to the skill of interpreting in the work setting. After completion of the course, students may enroll in upper-level Spanish courses such as AP Spanish V to further their language study.

**Spanish for Heritage Speakers III**

FL 647 A/B

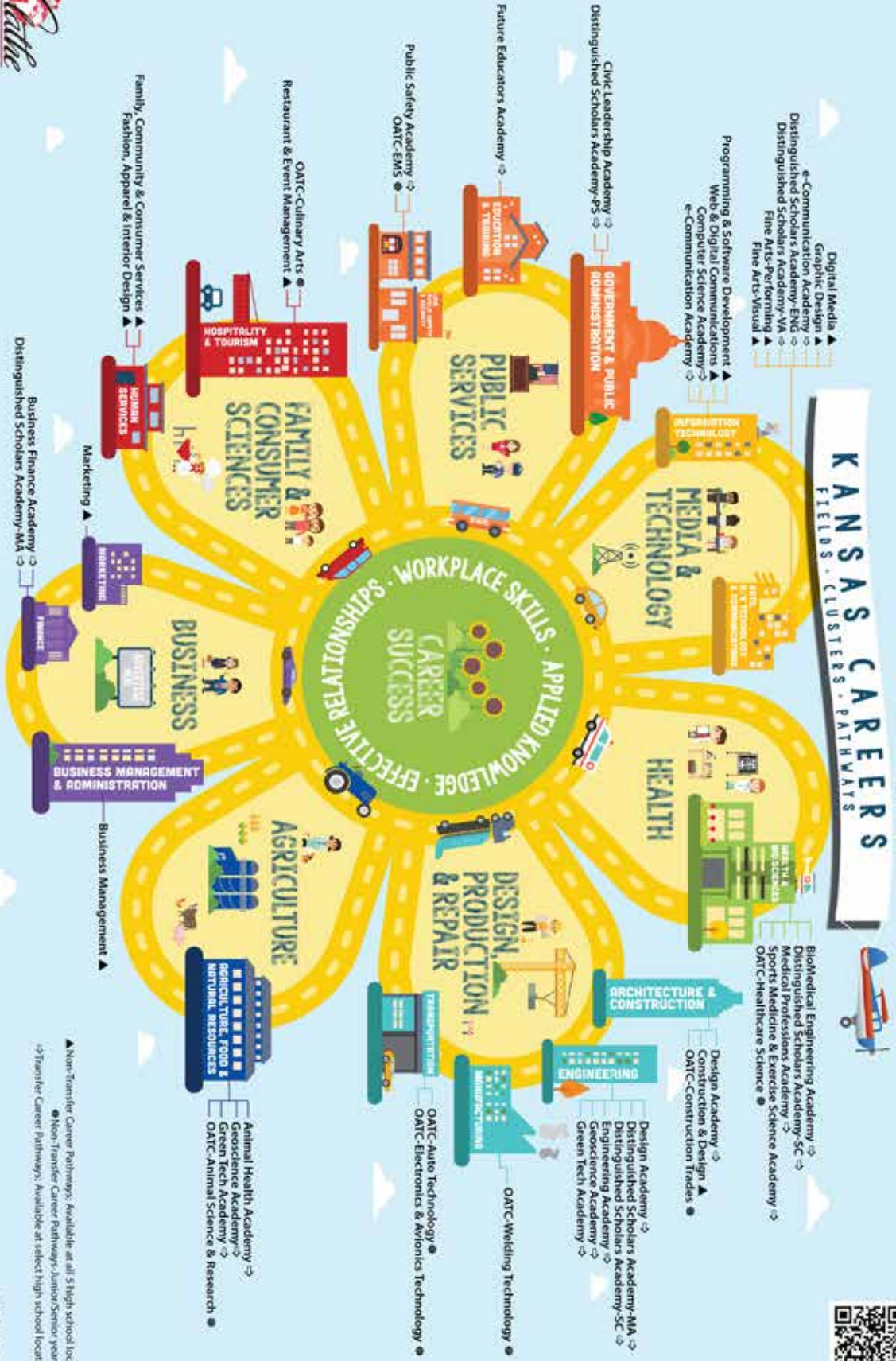
Grade Level: 9, 10, 11, 12



Two Semesters - 1.0 credit

Prerequisite: Spanish for Heritage Speakers II

This course is designed specifically for heritage students who have already gained speaking and listening proficiency in Spanish in a home or other community setting in the United States. In this course, students continue to build on their academic and interpreting skills in Spanish. Students increase their linguistic and cultural competence through the study and discussion of language structure, culture, and current events in the Spanish-speaking world. After completion of the course, students may enroll in upper-level Spanish courses such as AP Spanish V to further their language study.



#OneDistrictManyOptions



#OneDistrictManyOptions



▲ Non-Transfer Career Pathways: Available at all 5 high school locations  
 ● Non-Transfer Career Pathways: Junior/Senior year only  
 → Transfer Career Pathways: Available at select high school locations

Revised 10/26/2023

# CAREER & TECHNICAL EDUCATION (CTE)

## Career Pathways

Olathe East High School	Olathe North High School	Olathe Northwest High School
<ul style="list-style-type: none"> <li>• Business Management &amp; Entrepreneurship</li> <li>• Construction &amp; Design (Design Academy <sup>21</sup>)</li> <li>• Digital Media</li> <li>• Engineering &amp; Applied Mathematics (Design Academy <sup>21</sup>)</li> <li>• Family, Community &amp; Consumer Services</li> <li>• Fashion, Apparel, Interior Design (FAID)</li> <li>• Government &amp; Public Administration (Civic Leadership Academy <sup>21</sup>)</li> <li>• Marketing</li> <li>• Programming &amp; Software Development</li> <li>• Restaurant &amp; Event Management</li> <li>• Teaching/Training (Future Educators Academy <sup>21</sup>)</li> <li>• Web &amp; Digital Communications</li> </ul>	<ul style="list-style-type: none"> <li>• Business Management &amp; Entrepreneurship</li> <li>• Construction &amp; Design</li> <li>• Digital Media</li> <li>• Family, Community &amp; Consumer Services</li> <li>• Fashion, Apparel, Interior Design (FAID)</li> <li>• Government &amp; Public Administration</li> <li>• Health Science (Sports Medicine &amp; Exercise Science Academy <sup>21</sup>)</li> <li>• Marketing</li> <li>• Programming &amp; Software Development</li> <li>• Restaurant &amp; Event Management</li> <li>• Web &amp; Digital Communications</li> </ul>	<ul style="list-style-type: none"> <li>• Business Management &amp; Entrepreneurship</li> <li>• Construction &amp; Design</li> <li>• Digital Media (e-Communication Academy <sup>21</sup>)</li> <li>• Engineering &amp; Applied Mathematics (Engineering Academy <sup>21</sup>)</li> <li>• Family, Community &amp; Consumer Services</li> <li>• Fashion, Apparel, Interior Design (FAID)</li> <li>• Government &amp; Public Administration</li> <li>• Graphic Design (e-Communication Academy <sup>21</sup>)</li> <li>• Marketing</li> <li>• Programming &amp; Software Development</li> <li>• Restaurant &amp; Event Management</li> <li>• Web &amp; Digital Communications (e-Communication Academy <sup>21</sup>)</li> </ul>
Olathe South High School	Olathe West High School	Olathe Advanced Technical Center (OATC)
<ul style="list-style-type: none"> <li>• Business Finance (Business-Finance Academy <sup>21</sup>)</li> <li>• Business Management &amp; Entrepreneurship</li> <li>• Construction &amp; Design</li> <li>• Digital Media</li> <li>• Family, Community &amp; Consumer Services</li> <li>• Fashion, Apparel, Interior Design (FAID)</li> <li>• Government &amp; Public Administration</li> <li>• Marketing</li> <li>• Programming &amp; Software Development (Computer Science Academy <sup>21</sup>)</li> <li>• Restaurant &amp; Event Management</li> <li>• Web &amp; Digital Communications</li> </ul>	<ul style="list-style-type: none"> <li>• Agriculture-Comprehensive (Green Tech Academy <sup>21</sup>)</li> <li>• Business Management &amp; Entrepreneurship</li> <li>• Construction &amp; Design</li> <li>• Corrections, Security &amp; Law Enforcement (Public Safety Academy <sup>21</sup>)</li> <li>• Digital Media</li> <li>• Emergency &amp; Fire Management Services (Public Safety Academy <sup>21</sup>)</li> <li>• Energy (Green Tech Academy <sup>21</sup>)</li> <li>• Family, Community &amp; Consumer Services</li> <li>• Fashion, Apparel, Interior Design (FAID)</li> <li>• Government &amp; Public Administration</li> <li>• Marketing</li> <li>• Programming &amp; Software Development</li> <li>• Restaurant &amp; Event Management</li> <li>• Web &amp; Digital Communications</li> </ul>	<ul style="list-style-type: none"> <li>• Animal Science (Animal Science &amp; Research <i>OATE</i>)</li> <li>• Aviation Maintenance (Electronics &amp; Avionics Technology <i>OATE</i>)</li> <li>• Construction &amp; Design (Construction Trades <i>OATE</i>)</li> <li>• Emergency &amp; Fire Management Services (Emergency Medical Specialties (EMS) <i>OATE</i>)</li> <li>• Health Science (Healthcare Science <i>OATE</i>)</li> <li>• Manufacturing (Welding Technology <i>OATE</i>)</li> <li>• Mobile Equipment Maintenance (Auto Collision <i>OATE</i>)</li> <li>• Mobile Equipment Maintenance (Auto Technology <i>OATE</i>)</li> <li>• Restaurant &amp; Event Management (Culinary Arts <i>OATE</i>)</li> </ul>

### JCCC/Career Pathways/Articulated Credit

Articulation provides a non-duplicative sequence of progressive classes maximizing the use of resources and minimizing duplication in educational programming. Students may progress directly from Olathe's high school career pathways by applying for JCCC advanced standing credit. The form for advanced standing credit and Olathe's articulation agreements are available at the JCCC website at <http://www.jccc.edu/admissions/early-college/career-pathways/index.html>.



Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	OATC Program	21st Century Academy only	College Now	GRADUATION REQUIREMENT	Practical & Consumer	Science-Life
		9	10	11	12								
SC 420P	Horticulture I		•	•	•	0.5	T			✓*		✓	
SC 430P	Horticulture II		•	•	•	0.5	T			✓*		✓	
<b>Green Tech Academy Courses</b>													
SC 425 AP OR SC 425 BP	Investigations in Green Tech-Ag (1st Semester) OR Investigations in Green Tech-Ag (2nd Semester)	•	•			0.5	I		21		✓		
GT 440 AP/BP	Plant and Animal Science			•	•	1.0	T		21		✓		
SC 427 AP/BP	Sustainable Resource Management		•	•	•	1.0	T		21			✓	
GT 795 AP/BP	Green Tech Senior Capstone-Ag Entrepreneurship				•	1.0	A		21		✓		
GT 796 AP/BP	Green Tech Senior Capstone-Ag Internship				•	1.0	A		21		✓		
GT 785 AP/BP	Green Tech Senior Capstone-Sustainability				•	1.0	A		21		✓		

Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.

**Investigations in Green Tech-Ag (1st semester)** SC 425 AP  
OR  
**Investigations in Green Tech-Ag (2nd semester)** SC 425 BP

Grade Level: 9, 10 21  
One Semester - 0.5 credit

This course is a survey of a wide array of topics within the agricultural industry, exposing students to the many and varied types of agriculture and sustainability career opportunities and to those in related fields (such as natural resources and urban agriculture). This course serves to introduce students to the agricultural field, providing them an opportunity to identify an area for continued study or to determine that their interest lies elsewhere. They often focus on developing communication skills, business principles, and leadership skills.

**Green Tech Senior Capstone-Ag Entrepreneurship** GT 795 AP/BP

Grade Level: 12 21  
Two Semesters - 1.0 credit

Ag Entrepreneurship is a course designed to enable students to make decisions and develop the day-to-day financial management skills required to effectively operate an agribusiness. Through exposure to business types, economics, marketing, and business planning, students will propose and operate a class agribusiness. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Green Tech Academy. Open to Green Tech Academy students who are meeting academy expectations.**

**Green Tech Senior Capstone-Ag Internship** GT 796 AP/BP

Grade Level: 12 21  
Two Semesters - 1.0 credit

The Ag Internship is a course designed to give students an immersive experience within an agricultural career pathway. Students will spend time in an off-site internship, where they will develop real-world skills and knowledge under the guidance of a mentor. Students will also gain experience in teamwork, career planning and time management. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Green Tech Academy. Open to Green Tech Academy students who are meeting academy expectations.**

**Green Tech Senior Capstone-Sustainability** GT 785 AP/BP

Grade Level: 12 21  
Two Semesters - 1.0 credit

This course allows students to prepare, conduct and evaluate science-based projects as they relate to science in sustainability in the classroom, field or greenhouse. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Green Tech Academy. Open to Green Tech Academy students who are meeting academy expectations.**

**Horticulture I** SC 420P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Biology

This course is designed for the student who is interested in plant studies. Students will be exposed to topics concerning the growth and care of greenhouse plants, woody plants, lawns and those plants grown for food, with an emphasis on environmentally safe methods of pest control. Topics which are project based include: plant propagation, hydroponics, soil testing, gardening and landscape, pest management, conservation and composting. **\*Guided Enrollment Note: Student may acquire dual credit through JCCC/College Now, when taken same school year as Horticulture II.**

# AGRICULTURAL SCIENCE

## CAREER PATHWAYS COURSES

### Horticulture II

SC 430P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Horticulture I

This course is designed for those interested in advanced plant studies. The topics covered in the introductory course will be pursued in greater depth, with an emphasis on individualized projects. Students learn from guest speakers who present topics in various areas of specialty and from several field trips. **\*Guided Enrollment Note: Student may acquire dual credit through JCCC/College Now, when taken same school year as Horticulture I.**

### Plant and Animal Science

GT 440 AP/  
BP

Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Sustainable Resource Management

21

Plant and animal science is a course designed to provide students with a deep understanding of crop production and animal agriculture. Students will engage in animal classification, selection, body systems and animal welfare as it relates to the livestock industry. Students will learn about the principles of plant anatomy/physiology and the environmental requirements for plant production. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Green Tech Academy.**

### Sustainable Resource Management

SC 427 AP/BP

Grade Level: 10, 11, 12  
Two Semesters - 1.0 credit

21


Sustainable Resource Management is a course designed to provide students with a comprehensive overview of natural resources, the environment and its relationship to recreation and production agriculture. At the conclusion of this course, students will be able to analyze common practices and how they positively or negatively affect people and the environment. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Green Tech Academy.**



Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	OATC Program	GRADUATION REQUIREMENT	Science-Life	Practical & Consumer
		9	10	11	12						
<b>OATC Animal Science Year 1</b>											
VE 210P	Animal Science			•	•	1.0	T	◆	GRADUATION REQUIREMENT	✓	✓
VE 215P	Small Animal Care			•	•	1.0	A	◆		✓	✓
VE 218 AP/BP	Agricultural Leadership & Communications			•	•	1.0	A	◆			✓
<b>OATC Animal Science Year 2</b>											
VE 220 AP/BP	Animal Health - Vet Assistant				•	1.0	A	◆	GRADUATION REQUIREMENT	✓	✓
VE 225P	Advanced Animal Science				•	1.0	A	◆		✓	✓
VE 235P	Animal Science Internship				•	1.0	A	◆			✓
VE 231P	Research in Animal Science				•	1.0	A	◆			✓
<p>Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.</p>											

**Advanced Animal Science** VE 225P


Grade Level: 12  
One Semester (2-hour block) - 1.0 credit



This course is designed to provide students with a more in-depth understanding of Animal Science. This course will focus on the care and management of large animals. Animal nutrition, health, behavior, reproduction and breeding, anatomy and physiology, facilities, use of qualitative and quantitative analyses for decision making, facilities, handling and training, and grooming are typical areas of study. **Guided enrollment note: This course is offered only at Olathe Advanced Technical Center (OATC) as part of the Animal Science & Research program.**

**Animal Health-Vet Assistant** VE 220 AP/BP


Grade Level: 12  
Two Semesters - 1.0 credit



Veterinary Science imparts information about the causes, diagnosis, and treatment of diseases and injuries of animals, typically emphasizing domestic and farm animals. This course is designed to help students develop skills used in veterinary clinics and boarding facilities. Upon completion of this course students will be prepared to sit for the Veterinary Assistant Certification examination to earn an Approved Veterinary Assistant (AVA) designation. **Guided enrollment note: This course is offered only at Olathe Advanced Technical Center (OATC) as part of the Animal Science & Research program.**

**Agricultural Leadership & Communications** VE 218 AP/  
BP


Grade Level: 11, 12  
Two Semesters - 1.0 credit  
(1st & 2nd Semester)



This course helps students develop leadership skills with a focus on opportunities in the Agricultural and Animal Science industries. Topics may include human and animal relationships and effective communication, decision-making and problem-solving, leadership qualities and styles, and ensuring successful completion of group activities. **Guided enrollment note: This course is offered only at Olathe Advanced Technical Center (OATC) as part of the Animal Science & Research program.**

**Animal Science** VE 210P


Grade Level: 11, 12  
One Semester (2-hour block) - 1.0 credit



Animal Science imparts information about the care and management of domestic and farm animals. This course will cover animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing, and marketing. Students will learn how to care for and maintain livestock. **Guided enrollment note: This course is offered only at Olathe Advanced Technical Center (OATC) as part of the Animal Science & Research program.**

**Animal Science Internship** VE 235P

Grade Level: 12  
One Semester (2-hour block) - 1.0 credit



Students will gain knowledge and skills for various careers in animal science industries. Students will provide a detailed log of experiences and hours while participating. Students must provide own transportation to/from internship location(s). **Guided enrollment note: This course is offered only at Olathe Advanced Technical Center (OATC) as part of the Animal Science & Research program.**

# ANIMAL SCIENCE

## CAREER PATHWAYS COURSES

### Research in Animal Science

VE 231P

Grade Level: 12

One Semester (2-hour block) - 1.0 credit



This course allows students to prepare, conduct and evaluate science based projects as they relate to the animal science industry. **Guided enrollment note: This course is offered only at Olathe Advanced Technical Center (OATC) as part of the Animal Science & Research program.**

### Small Animal Care

VE 215P

Grade Level: 11, 12

One Semester (2-hour block) - 1.0 credit



This course focuses on the care and management of small animals. Animal nutrition, health, behavior, reproduction and breeding, anatomy and physiology, facilities, handling and training, and grooming are typical areas of study. This course will teach technical knowledge & skills for occupations in companion animal industry. **Guided enrollment note: This course is offered only at Olathe Advanced Technical Center (OATC) as part of the Animal Science & Research program.**

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	OATC Program	21st Century Academy only	College Now	GRADUATION REQUIREMENT	Practical & Consumer	Technology
		9	10	11	12								
IT 405P	Introduction to Technology Education	•	•			0.5	I				✓	✓	
<b>OATC Electronics &amp; Avionics Year 1</b>													
VE 700P	Foundation of Electronics			•	•	1.0	T	◆		✓	✓	✓	
VE 715P	Aviation Fundamentals			•	•	0.5	T	◆			✓	✓	
VE 710P	Hand & Power Tools			•	•	0.5	T	◆			✓	✓	
VE 720P	Digital Electronics			•	•	1.0	A	◆		✓	✓	✓	
<b>OATC Electronics &amp; Avionics Year 2</b>													
VE 735P	AC Electronics				•	1.0	A	◆		✓	✓	✓	
VE 725P	DC Electronics				•	1.0	A	◆		✓	✓	✓	
VE 780 AP/BP	Work Experience in Aviation				•	1.0	A	◆		✓	✓	✓	

Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.

### AC Electronics

VE 735P

Grade Level: 12  
One Semester - 1.0 credit



The analysis techniques presented in Electronics I will be applied to complex circuits driven by Alternating Current (AC) and pulsed sources. The responses of the circuits having resistance impedance, inductive and capacitive reactance will be analyzed. Other topics will include transformers and electronic filters. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Avionics & Electronics Technology program.**

### Digital Electronics

VE 720P

Grade Level: 11, 12  
One Semester (2-hour block)- 1.0 credit



This is a technical level course in which students will study and practice the basic concepts of digital electronics. Topics will include digital number systems, logic gates, logic circuits, flip-flops, digital arithmetic, counters and registers. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Avionics & Electronics Technology program.**

### Aviation Fundamentals

VE 715P

Grade Level: 11, 12  
One Semester - 0.5 credit



This course provides an Introduction to Aviation fundamentals related to materials, processes, and history of Aviation. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Avionics & Electronics Technology program.**

### Foundation of Electronics

VE 700P

Grade Level: 11, 12  
One Semester (2-hour block)- 1.0 credit



This is a beginning course in electronics technology that is appropriate for both electronic majors and other interested students. An overview of basic electronic theory, principles and components is presented. In addition, the laboratory exercises will emphasize the operation and use of the primary pieces of electronic test equipment and the fabrication of selected circuits. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Avionics & Electronics Technology program.**

### DC Electronics

VE 725P

Grade Level: 12  
One Semester - 1.0 credit



This course covers resistive circuits having DC sources. Analysis topics include Ohm's law Kirchoff's law, Watt's law, the superposition theorem, Thevenin's theorem and Norton's theorem. The current, voltage and resistance relationships in series, parallel and combination circuits will be studied. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Avionics & Electronics Technology program.**

### Hand & Power Tools

VE 710P

Grade Level: 11, 12  
One Semester - 0.5 credit



This course provides technical knowledge used in Aviation and Manufacturing area related to hand and power tools. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Avionics & Electronics Technology program.**



### Introduction to Technology Education

IT 405P

Grade Level: 9, 10

One Semester - 0.5 credit

This introductory level, technology-based class will introduce students to Engineering Design, Architectural Design and Production/Manufacturing Technology. Students will learn fundamentals of manufacturing and construction technology, create computer-aided drawings, production of prototypes, as well as research historical and future technology issues.

### Work Experience in Aviation

VE 780 AP/BP

Grade Level: 12

Two Semesters - 1.0 credit



In this course students will be guided on advanced topics, research, and application covering specific topics in aviation. Students will have an opportunity to apply classroom knowledge and skills in an actual work environment through Work-Based Learning (WBL) such as in-house training, job shadowing, and/or internships. Students will need to provide their own transportation to off-site internship locations. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Avionics & Electronics program.**

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	21st Century Academy only	eLearning available	College Now	GRADUATION REQUIREMENT	Social Studies	Practical & Consumer	Technology
		9	10	11	12									
BU 500P	Business Essentials	•	•			0.5	I						✓	
SS 612P	Business Economics	•	•	•	•	0.5	T					✓	✓	
BU 540P	Business Law	•	•	•	•	0.5	T						✓	
BU 520P	Entrepreneurship		•	•	•	0.5	T						✓	
BU 560P	Accounting I	•	•	•	•	0.5	T						✓	
BU 565P	Accounting II	•	•	•	•	0.5	T						✓	✓
<b>Business Finance Academy Courses</b>														
BU 501P	Business Essentials II	•	•			0.5	I	21					✓	
BU 676 AP/BP	College Accounting			•	•	1.0	A	21		✓		✓	✓	
BU 680P	Banking and Finance			•	•	0.5	A	21				✓		
BU 681P	Investing			•	•	0.5	A	21				✓		
BU 685P	Business Finance Senior Capstone I				•	1.0	A	21				✓		
BU 686P	Business Finance Senior Capstone II				•	1.0	A	21				✓		

Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.

### Accounting I BU 560P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Accounting is the language of business and will be required of anyone attending a business school or pursuing a major or minor in business in college. This course is the first in a sequence of three courses providing a foundation which supports both college-level coursework and personal financial experiences.

### Accounting II BU 565P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Accounting I

Accounting II reviews the basic concepts learned in the first semester and expands into areas of payroll, special journals, cash register systems, uncollectible accounts, and depreciation. Computers are utilized in the course to reinforce accounting cycle knowledge and give students a realistic view of how many businesses perform accounting tasks.

### Banking and Finance BU 680P

Grade Level: 11, 12  
One Semester - 0.5 credit

21

Banking and Finance will focus on all aspects of banking and financial analysis. This course will also address examining and applying the methods used for measuring the financial performance of banks in addition to examining specialized brokerage products, current issues, and future trends in banking. **Guided Enrollment Note: This course is offered only at Olathe South High School as part of the Business Finance Academy and is required of students in the Finance track.**

### Business Economics SS 612P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Business Economics integrates economic principles of free market economy, consumerism, and the role of American government within the economic system with entrepreneurship/business concepts (such as marketing principles, business law, and risk). Student will learn basic macroeconomic and microeconomic theory, fiscal and monetary policies, the role and significance of international economics and government trade and regulatory policies.

# BUSINESS FINANCE

## CAREER PATHWAYS COURSES

### Business Essentials

BU 500P

Grade Level: 9, 10  
One Semester - 0.5 credit

This course is designed for the student who seeks an introduction to business, marketing, and management. Students will develop the skills necessary to succeed in the business environment by studying forms of business ownership, functions of management, budgeting and finance, accounting, business communications, law, marketing, and economics. This course is appropriate for any student interested in entrepreneurship and owning their own business.

### Business Essentials II

BU 501P

Grade Level: 9, 10  
One Semester - 0.5 credit  
Prerequisite: Business Essentials

21

This course is designed to provide students an opportunity to explore and to gain foundational knowledge of business theory essentials. In addition, students will gain valuable experiences including membership in student organizations, competitive events, field trips, job shadowing, and investment club opportunities. **Guided Enrollment Note: This course is offered only at Olathe South High School as part of the Business Finance Academy.**

### Business Finance Senior Capstone I

BU 685P

Grade Level: 12  
Two Semesters - 1.0 credit

21

This course is a culmination of the 4-year academy plan of study and involves a student Work-Based Learning experience. This class provides a culmination activity along with Work-Based experience that synthesizes a student's learning and helps further define their post-secondary plans. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). This course may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace. **Guided Enrollment Note: This course is offered only at Olathe South High School as part of the Business Finance Academy. Open to Business Finance Academy students who are meeting academy expectations.**

### Business Finance Senior Capstone II

BU 686P

Grade Level: 12  
Two Semesters - 1.0 credit

21

This advanced-level work-based learning course expands on the knowledge and skills a student has learned through the entire Business Finance pathway of courses and provides a more in-depth application of the industry. **Guided Enrollment Note: This course is offered only at Olathe South High School as part of the Business Finance Academy. Open to Business Finance Academy students who are meeting academy expectations.**

### Business Law

BU 540P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit



This course identifies and promotes the skills needed in law and law associated professions. Topics include the origins, ethics, structures, and institutions of law. It concentrates on several types of law including criminal, civil, consumer, contract, property, agency, employment, family and environmental law. Throughout the course, students will use case studies to examine and evaluate ethics, rights, and responsibilities in business law.

### College Accounting

BU 676 AP/BP

Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Accounting II

21

This course will expand upon the fundamental accounting principles and procedures used in businesses. Course content includes the full accounting cycle, payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students learn how to apply standard auditing principles and to prepare budgets and final reports. Topics include principles of partnership and corporate accounting and the managerial uses of control systems and the accounting process and further enhancement of accounting skills. **Guided Enrollment Note: This course is offered only at Olathe South High School as part of the Business Finance Academy and is required of students in the Accounting track of the Academy.**

### Entrepreneurship

BU 520P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit

This course is designed to teach the student the basic principles and practices of owning a business. Students will learn about planning, organizing, controlling, problem-solving, and decision-making as it relates to owning a small business. Students will explore the free enterprise system through a combination of case studies, group work and speakers.

### Investing

BU 681P

Grade Level: 11, 12  
One Semester - 0.5 credit

21

The Investing course emphasizes the formulation of business and individual investment decisions by comparing and contrasting the investment qualities of cash, stock, bonds, and mutual funds. Students typically review annual reports, predict growth rates, and analyze trends. Stock market simulations are often incorporated into Investing courses. **Guided Enrollment Note: This course is offered only at Olathe South High School as part of the Business Finance Academy and is required of students in the Finance track.**

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	21st Century Academy only	eLearning available	OATC Program	GRADUATION REQUIREMENT						
		9	10	11	12												
BU 500P	Business Essentials	•	•			0.5	I										
SS 612P	Business Economics	•	•	•	•	0.5	T						✓		✓		
BU 540P	Business Law	•	•	•	•	0.5	T								✓		
BU 520P	Entrepreneurship		•	•	•	0.5	T								✓		
BU 560P	Accounting I	•	•	•	•	0.5	T								✓		
BU 565P	Accounting II	•	•	•	•	0.5	T								✓	✓	
BU 547P	Principles of Marketing and Brand Management	•	•	•	•	0.5	T								✓		
BU 546P	Principles of Marketing and Selling	•	•	•	•	0.5	T								✓		
BU 620P	Business Communications		•	•	•	0.5	T								✓		
BU 660P	Business Management			•	•	0.5	T								✓		
BU 665P	Business Management Work Experience I				•	1.0	A								✓		
BU 666P	Business Management Work Experience II				•	1.0	A								✓		
<b>Supportive Entrepreneurship Technical Courses.</b> Students may take up to ONE CREDIT for Completer and/or Concentrator attainment																	
CP 553P	Web Design I	•	•	•	•	0.5	T						✓		✓	✓	
CP 554P	Web Design II	•	•	•	•	0.5	T						✓		✓	✓	
HE 560P	Culinary Essentials	•	•	•	•	0.5	T								✓		
VE 440 AP/BP	Carpentry I			•	•	1.0	T			◆					✓		
IT 552 AP/BP	Design & Development			•		1.0	A	21							✓	✓	
IT 411P	Engineering Drafting/CAD I	•	•	•	•	0.5	T								✓	✓	
IT 420P	Engineering Drafting/CAD II	•	•	•	•	0.5	T								✓	✓	
VE 620P	Auto Collision I			•	•	1.0	T			◆					✓	✓	

Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.

### Accounting I

BU 560P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Accounting is the language of business and will be required of anyone attending a business school or pursuing a major or minor in business in college. This course is the first in a sequence of three courses providing a foundation which supports both college-level coursework and personal financial experiences.

### Accounting II

BU 565P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Accounting I

Accounting II reviews the basic concepts learned in the first semester and expands into areas of payroll, special journals, cash register systems, uncollectible accounts, and depreciation. Computers are utilized in the course to reinforce accounting cycle knowledge and give students a realistic view of how many businesses perform accounting tasks.

### Auto Collision I

VE 620P

Grade Level: 11, 12  
One Semester - 1.0 credit

This course is designed to instruct students in the knowledge and skills common to the collision industry. Students will learn to repair and refinish damaged panels back to their pre-accident condition; remove, replace and adjust panels; and utilize welding and cutting procedures. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Auto Collision program.**

### Business Communications

BU 620P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit

This course will help students to develop an understanding and appreciation for effective communication in business situations and environments. Emphasis is placed on all phases of communication: speaking, listening, thinking, responding, reading, writing, communicating non-verbally, and utilizing technology for communication. Business communication functions, processes, and applications in the context of business may be practiced through problem-based projects and real-world applications.



# BUSINESS MANAGEMENT & ENTREPRENEURSHIP

## CAREER PATHWAYS COURSES

### Business Economics

SS 612P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Business Economics integrates economic principles of free market economy, consumerism, and the role of American government within the economic system with entrepreneurship/business concepts (such as marketing principles, business law, and risk). Student will learn basic macroeconomic and microeconomic theory, fiscal and monetary policies, the role and significance of international economics and government trade and regulatory policies.

### Business Essentials

BU 500P

Grade Level: 9, 10  
One Semester - 0.5 credit

This course is designed for the student who seeks an introduction to business, marketing, and management. Students will develop the skills necessary to succeed in the business environment by studying forms of business ownership, functions of management, budgeting and finance, accounting, business communications, law, marketing, and economics. This course is appropriate for any student interested in entrepreneurship and owning their own business.

### Business Law

BU 540P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit



This course identifies and promotes the skills needed in law and law associated professions. Topics include the origins, ethics, structures, and institutions of law. It concentrates on several types of law including criminal, civil, consumer, contract, property, agency, employment, family and environmental law. Throughout the course, students will use case studies to examine and evaluate ethics, rights, and responsibilities in business law.

### Business Management

BU 660P

Grade Level: 11, 12  
One Semester - 0.5 credit

Prerequisite: 0.5 credit Business course within Marketing Pathway or Business Management & Entrepreneurship Pathway

This course will acquaint students with management opportunities and effective human relations providing students with the skills to perform planning, staffing, financing, and controlling functions within a business. Students will be exposed to macro-level study of the business world, including business structure and finance, and the interconnections among industry, government, and the global economy. The course will emphasize problem-based, real-world applications of business concepts and use accounting concepts to formulate, analyze, and evaluate business decisions.

### Business Management Work Experience I

BU 665P

Grade Level: 12  
One Semester - 1.0 credit

Prerequisite: 1.0 credit within Business Management Pathway

This course will acquaint students with management opportunities and effective human relations providing students with the skills to perform planning, staffing, financing, and controlling functions within a business. Students will be exposed to macro-level study of the business world, including business structure and finance, and the interconnections among industry, government, and the global economy. The course will emphasize problem-based, real-world applications of business concepts and use accounting concepts to formulate, analyze, and evaluate business decisions.

### Business Management Work Experience II

BU 666P

Grade Level: 12  
One Semester - 1.0 credit

Prerequisite: 1.0 credit within Business Management Pathway

This course will acquaint students with management opportunities and effective human relations providing students with the skills to perform planning, staffing, financing, and controlling functions within a business. Students will be exposed to macro-level study of the business world, including business structure and finance, and the interconnections among industry, government, and the global economy. The course will emphasize problem-based, real-world applications of business concepts and use accounting concepts to formulate, analyze, and evaluate business decisions.

### Carpentry I

VE 440 AP/BP

Grade Level: 11, 12  
Two Semesters - 1.0 credit



This course is designed to introduce students in the basic knowledge and skills required for construction of residential structures. Students will become familiar with the terms, methods, procedures, sequences of operation, and types of construction and planning in civil and building construction. **Guided enrollment note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Construction Trades program.**

### Culinary Essentials

HE 560P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This course will prepare students for careers or post-secondary programs related to the Culinary Arts. The course will include knife skills and a variety of cooking techniques. Students will expand their knowledge of flavor profiles. **Guided Enrollment Note: This class is strongly recommended for the Culinary Arts program located at Olathe Advanced Technical Center.**

### Design & Development

IT 552 AP/BP

Grade Level: 11  
Two Semesters - 1.0 credit

Prerequisite: Product Design Engineering

This is a hands-on, project-based class focusing on the design process using design thinking. Students will learn researching, concept development and prototyping skills needed for any design project whether it is in architecture, product or other design fields. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Design Academy.**



### Engineering Drafting/CAD I

IT 411P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This course will help students learn to utilize CAD software as a design tool for engineering, as well as fundamentals of manual orthographic drawings. Several forms of graphic and electronic communication are explored. Students are exposed to graphic design, problem-solving, research and design, and model construction. This class introduces students to 3D computer generated modeling and design.

### Engineering Drafting/CAD II

IT 420P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Prerequisite: Engineering Drafting/CAD I

This drawing course will focus on communication skills used by professionals in various fields of engineering. 3D computer generated modeling and design is the primary technical skill applied in this class. Students are presented with problem-solving situations involving the various types of communication systems. This course is recommended for any student interested in a career in one of the many related fields of Engineering or CAD technology.

### Entrepreneurship

BU 520P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit

This course is designed to teach the student the basic principles and practices of owning a business. Students will learn about planning, organizing, controlling, problem-solving, and decision-making as it relates to owning a small business. Students will explore the free enterprise system through a combination of case studies, group work and speakers.

### Principles of Marketing and Brand Management

BU 547P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This class offers students insight into the field of marketing and branding decisions. Students will be introduced to promotional and branding strategies as well as learning pricing, distribution and marketing research through project-based learning.

### Principles of Marketing and Selling

BU 546P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This class offers students insight into the selling processes affecting the marketing of goods and services from the producer to the consumer. Project based learning provides the students with authentic learning opportunities.

### Web Design I

CP 553P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

A foundation of web design will be gained by learning HTML and CSS, the standard web languages. Also, students will learn how to make digital graphics. Students will incorporate all these, in addition to some basic JavaScript, to create website projects. They will have the opportunity to present their websites on the internet. **Guided enrollment Note:** *This course is offered at all high schools with open enrollment and is a required course for students pursuing the Web Design Strand of the 21st Century e-Communication Academy.*

### Web Design II

CP 554P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Prerequisite: Web Design I

Students will continue the development of their web designing skills by using industry-standard web development software. Students will learn to use good navigation design and ease-of-use principles while developing projects for the web. Graphic design skills as they relate to the web will also be studied. Websites will be created incorporating all the skills learned in this course. **Guided enrollment Note:** *This course is offered at all high schools with open enrollment and is a required course for students pursuing the Web Design Strand of the 21st Century e-Communication Academy.*

# CONSTRUCTION & DESIGN

## CAREER PATHWAYS COURSES

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	21st Century Academy only	OATC Program	GRADUATION REQUIREMENT	Practical & Consumer	Technology
		9	10	11	12							
IT 405P	Introduction to Technology Education	•	•			0.5	I			✓	✓	
IT 430P	Architecture Design I	•	•	•	•	0.5	T			✓	✓	
IT 440P	Architecture Design II	•	•	•	•	0.5	T			✓	✓	
IT 565 AP/BP	Construction Principles (Geometry in Construction)	•	•	•		1.0	T			✓	✓	
IT 411P	Engineering Drafting/CAD I	•	•	•	•	0.5	T			✓	✓	
IT 420P	Engineering Drafting/CAD II	•	•	•	•	0.5	T			✓	✓	
HE 855P	Interior Design II		•	•	•	0.5	T			✓		
IT 600P	Woodworking & Design I	•	•	•	•	0.5	T			✓	✓	
IT 605P	Woodworking & Design II	•	•	•	•	0.5	T			✓	✓	
IT 560AP	Research & Design for Architecture I			•	•	0.5	A			✓	✓	
IT 560BP	Research & Design for Architecture II			•	•	0.5	A			✓	✓	
<b>Design Academy Courses</b>												
IT 404P	Introduction to Design I	•				0.5	I	21		✓		
IT 762P	Commercial Design			•		0.5	A	21		✓	✓	
IT 763P	Advanced Studies in Design			•		0.5	A	21		✓	✓	
<b>OATC Construction Trades Year 1 Courses</b>												
VE 439P	Production Print Reading			•	•	0.5	I		◆	✓		
VE 440 AP/BP	Carpentry I			•	•	1.0	T		◆	✓		
VE 442 AP/BP	Skilled Mechanical Trades			•	•	1.0	T		◆	✓		
VE 443P	Plumbing Technology			•	•	0.5	A		◆	✓		
<b>OATC Construction Trades Year 2 Courses</b>												
VE 445 AP/BP	Carpentry II				•	1.0	A		◆	✓		
VE 446P	Electrical & Security Systems				•	0.5	A		◆	✓		
VE 447 AP/BP	Research & Design in Building Trades				•	1.0	A		◆	✓		
VE 441P	Remodel & Building Maintenance				•	0.5	A		◆	✓		
VE 449P	Workplace Experience in A&C				•	0.5	A		◆	✓		
<p>Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.</p>												

### Advanced Studies in Design

IT 763 P

Grade Level: 11  
One Semester - 0.5 credit

21

Prerequisite: Architecture Design II

This course focuses on an advanced study or specific research-based topics. It provides a background for individuals wanting to explore a diversity of careers in architecture, engineering, construction and structures. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Design Academy.**

### Architecture Design I

IT 430P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This course provides a study of the fundamental principles of architectural design common to buildings, bridges, homes, and other structural frameworks. Students may design homes or commercial buildings, construct models, create construction and presentation drawings and develop design presentations including boards, models and 3D computer generated renderings and animations.

### Architecture Design II

IT 440P

Grade Level: 9, 10, 11, 12  
 One Semester - 0.5 credit  
 Prerequisite: Architecture Design I

This advanced architectural drawing course will focus on communication skills used by professionals in various fields of architecture and design. Projects are developed to simulate real-world design problems using 3D computer generated modeling. This course is recommended for any student interested in a career in one of the many related fields of Architecture or CAD technology.

### Carpentry I

VE 440 AP/BP

Grade Level: 11, 12  
 Two Semesters - 1.0 credit



This course is designed to introduce students in the basic knowledge and skills required for construction of residential structures. Students will become familiar with the terms, methods, procedures, sequences of operation, and types of construction and planning in civil and building construction. **Guided enrollment note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Construction Trades program.**

### Carpentry II

VE 445 AP/BP

Grade Level: 12  
 Two Semesters - 1.0 credit



This advanced course is designed to instruct students in skills pertaining to rough construction and finish work. Students will explore various building materials and how they are assembled during the construction process. Topics include wood, brick masonry, steel, concrete, and sustainable construction. **Guided enrollment note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Construction Trades program.**

### Commercial Design

IT 762 P

Grade Level: 11  
 One Semester - 0.5 credit

21

This course is designed to instruct students in the skills necessary to design spaces that acknowledge client needs, legislated codes, historic, current and future trends, and public policy for commercial and industrial buildings such as office buildings, schools, warehouses and manufacturing sites. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Design Academy.**

### Construction Principles (Geometry in Construction)

IT 565 AP/BP

Grade Level: 9, 10, 11  
 Two Semesters - 1.0 credit

This technical level course is designed to instruct students in woodworking and various materials common to construction and manufacturing, architecture and engineering industries. **Guided Enrollment Note: This course is 1 part of the 2-hour block for Geometry in Construction. Students should also enroll in MA 540A/P Geometry. Material cost for individual projects. Fee scholarships available.**

### Electrical & Security Systems

VE 446P

Grade Level: 12  
 One Semester - 0.5 credit



This course is designed to instruct students in the basic skills required for installation of electrical and security systems. **Guided enrollment note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Construction Trades program.**

### Engineering Drafting/CAD I

IT 411P

Grade Level: 9, 10, 11, 12  
 One Semester - 0.5 credit

This course will help students learn to utilize CAD software as a design tool for engineering, as well as fundamentals of manual orthographic drawings. Several forms of graphic and electronic communication are explored. Students are exposed to graphic design, problem-solving, research and design, and model construction. This class introduces students to 3D computer generated modeling and design.

### Engineering Drafting/CAD II

IT 420P

Grade Level: 9, 10, 11, 12  
 One Semester - 0.5 credit

Prerequisite: Engineering Drafting/CAD I

This drawing course will focus on communication skills used by professionals in various fields of engineering. 3D computer generated modeling and design is the primary technical skill applied in this class. Students are presented with problem-solving situations involving the various types of communication systems. This course is recommended for any student interested in a career in one of the many related fields of Engineering or CAD technology.

### Interior Design II

HE 855P

Grade Level: 10, 11, 12  
 One Semester - 0.5 credit  
 Prerequisite: Interior Design I

Interior Design II will prepare students for careers and/or post-secondary programs related to housing and the commercial design industry. Students will have the opportunity to explore remodeling, designing new interior spaces, working with a client, personal marketing, modern design, and career options. Students will also practice professional presentation skills using industry level technology.

### Introduction to Design I

IT 404P

Grade Level: 9  
 One Semester - 0.5 credit

21

This exploratory course examines a variety of aspects that encompass the designed environment in which we work, live and play. Students will observe skills designers use to create the products and places people interact with daily. This class includes an overview of the design process, observational drawing, introduction to CAD, and various other graphic communication methods and technology. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Design Academy.**

# CONSTRUCTION & DESIGN

## CAREER PATHWAYS COURSES

### Introduction to Technology Education

IT 405P

Grade Level: 9, 10  
One Semester - 0.5 credit

This introductory level, technology-based class will introduce students to Engineering Design, Architectural Design and Production/Manufacturing Technology. Students will learn fundamentals of manufacturing and construction technology, create computer-aided drawings, production of prototypes, as well as research historical and future technology issues.

### Plumbing Technology

VE 443P

Grade Level: 11, 12  
One Semester - 0.5 credit



This course is designed to provide students with exposure to and training in the theories, equipment and skills needed to install and maintain plumbing systems. **Guided Enrollment Notes: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Construction Trades program.**

### Production Print Reading

VE 439P

Grade Level: 11, 12  
One Semester - 0.5 credit



This introductory level course will explain the fundamentals of interpreting (reading) architectural drawings. Students will learn how to understand plan and elevation views, sections, details, schedules, specifications, symbols and abbreviations found on most residential and commercial construction drawings. **Guided enrollment note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Construction Trades program.**

### Remodel & Building Maintenance

VE 441P

Grade Level: 12  
One Semester - 0.5 credit



This application level course is designed to instruct students in the skills required for residential remodeling and maintenance. Students will examine the organization, intent and use of building codes in general and International Building Code. Students will cover the reasons codes exist and how they form an integral part of the design criteria for every building project. Additional topics may include building types, fire protection, accessibility, roofs, foundations, and interiors/exterior. **Guided enrollment note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Construction Trades program.**

### Research & Design for Architecture I

IT 560AP

Grade Level: 11-12  
One Semester - 0.5 credit  
Prerequisite: 1.0 credit from following courses:  
Introduction to Technology Education; Architecture Design I/II; Engineering Drafting/CAD I/II; or Production Technology I/II.

Students enrolled in this course will use advanced design/communication principles to create real-world projects or simulations. Projects will include professional client communication, covering specific topics in design and pre-construction to include management and "green design" skills. Students will work collaboratively focusing on the design process and team efficiencies. Teaming models such as Six Sigma will be applied to develop highly efficient production techniques. Skills learned in this class will help them to become highly competent design professionals.

### Research & Design for Architecture II

IT 560 BP

Grade Level: 11-12  
One Semester - 0.5 credit  
Prerequisite: Research & Design for Architecture I

Students in this advanced class will work with a client to develop a client driven product. They will produce a presentation and construction drawings as well as a working prototype (graphic or physical) using advanced software and/or equipment. Researching new technologies to meet future client needs will take place, covering specific topics in design and construction to include management and "green design" skills. Students will develop abilities in design/planning and visual communication in current architectural practices. Students will manipulate materials and design/manufacturing and construction processes to meet client needs with set project goals and timelines.

### Research & Design in Building Trades

VE 447 AP/BP

Grade Level: 12  
Two Semesters - 1.0 credit



This advanced research and application course covers specific topics in building construction and "green building" design. The student will learn phases of a project, bidding requirements, contractual relationships between parties, how to categorize drawings, write specifications, list warranties and explain contract modifications. **Guided enrollment note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Construction Trades program.**

### Skilled Mechanical Trades

VE 442 AP/BP

Grade Level: 11, 12  
Two Semesters - 1.0 credit



This technical level course is designed to introduce and instruct students in the basic skills necessary for occupations in skilled mechanical trades. **Guided enrollment note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Construction Trades program.**

### Woodworking & Design I

IT 600P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This technical level course is designed to instruct students in woodworking and various materials common to construction and manufacturing, architecture and engineering industries. **Guided Enrollment Note: Material cost for individual projects. Fee Scholarships are available.**

### Woodworking & Design II

IT 605P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This technical level course is the 2nd of a series designed to instruct students in woodworking and various materials common to construction and manufacturing, architecture and engineering industries. Students will advance their learning in the production design process. **Guided Enrollment Note: Material cost for individual projects. Fee Scholarships are available.**

### Workplace Experience in A&C

VE 449P

Grade Level: 12

One Semester - 0.5 credit



This is an advanced application level course that offers students an opportunity to apply knowledge and skills in an actual workplace setting that explores all aspects of the selected industry, builds relationships with industry professionals, and creates a seamless transition from secondary to postsecondary pursuits and job satisfaction. **Guided enrollment note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Construction Trades program.**

# CORRECTIONS, SECURITY & LAW ENFORCEMENT

## CAREER PATHWAYS COURSES

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	21st Century Academy only	OATC Program	College Now	GRADUATION REQUIREMENT	Physical Education	Practical & Consumer	Science-Life	Social Studies	Technology	
		9	10	11	12												
BU 560P	Accounting I	•	•	•	•	0.5	T						✓				
BU 565P	Accounting II	•	•	•	•	0.5	T						✓				✓
BU 620P	Business Communications		•	•	•	0.5	T						✓				
SS 612P	Business Economics	•	•	•	•	0.5	T						✓		✓		
BU 540P	Business Law	•	•	•	•	0.5	T						✓				
BU 660P	Business Management			•	•	0.5	T						✓				
<b>OATC Emergency Medical Services Courses</b>																	
VE 541P	Basic Life Support for Healthcare Providers				•	0.5	T		◆	✓			✓				
<b>Public Safety Academy Courses</b>																	
PS 305P	Introduction to Public Safety - Fire Science	•	•			0.5	T	21				✓					
PS 300P	Introduction to Public Safety - Law Enforcement	•	•			0.5	I	21				✓					
SC 670 AP/BP	Forensic Science			•	•	1.0	T	21					✓				
PS 350P	Hazardous Materials for the First Responder				•	0.5	T	21		✓		✓					
PE 425 AP/BP	Public Safety Physical Education		•	•		1.0	T	21			✓						
PS 330 AP/BP	Law Enforcement I		•	•		1.0	T	21		✓		✓					
PS 340 AP/BP	Law Enforcement II			•	•	1.0	A	21		✓		✓					
PS 690P	Public Safety Capstone - Fire Science				•	0.5	A	21				✓					
PS 680 AP/BP	Public Safety Capstone - Law Enforcement				•	1.0	A	21				✓					
<b>Civic Leadership Academy Courses</b>																	
SS 486P	Practical Law Fundamentals		•			0.5	T	21				✓		✓			
SS 487 AP/BP	Legal Proceedings Applications			•		1.0	A	21				✓			✓		
SS 490 AP/BP	Civic Leadership Work Experience				•	1.0	A	21				✓					
<p>Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.</p>																	

### Accounting I

BU 560P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Accounting is the language of business and will be required of anyone attending a business school or pursuing a major or minor in business in college. This course is the first in a sequence of three courses providing a foundation which supports both college-level coursework and personal financial experiences.

### Accounting II

BU 565P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Accounting I

Accounting II reviews the basic concepts learned in the first semester and expands into areas of payroll, special journals, cash register systems, uncollectible accounts, and depreciation. Computers are utilized in the course to reinforce accounting cycle knowledge and give students a realistic view of how many businesses perform accounting tasks.

### Basic Life Support for Healthcare Providers

VE 541P

Grade Level: 12  
One Semester - 0.5 credit  
Prerequisite: Medical Terminology



This technical level course will instruct students in the requirements and skills to obtain national certifications for First Aid, CPR and Emergency Medical Responder. **Guided enrollment note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Emergency Medical Specialties (EMS) program.**

### Business Communications

BU 620P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit

This course will help students to develop an understanding and appreciation for effective communication in business situations and environments. Emphasis is placed on all phases of communication: speaking, listening, thinking, responding, reading, writing, communicating non-verbally, and utilizing technology for communication. Business communication functions, processes, and applications in the context of business may be practiced through problem-based projects and real-world applications.

### Business Economics

SS 612P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Business Economics integrates economic principles of free market economy, consumerism, and the role of American government within the economic system with entrepreneurship/business concepts (such as marketing principles, business law, and risk). Student will learn basic macroeconomic and microeconomic theory, fiscal and monetary policies, the role and significance of international economics and government trade and regulatory policies.

### Business Law

BU 540P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit



This course identifies and promotes the skills needed in law and law associated professions. Topics include the origins, ethics, structures, and institutions of law. It concentrates on several types of law including criminal, civil, consumer, contract, property, agency, employment, family and environmental law. Throughout the course, students will use case studies to examine and evaluate ethics, rights, and responsibilities in business law.

### Business Management

BU 660P

Grade Level: 11, 12  
One Semester - 0.5 credit

Prerequisite: 0.5 credit Business course within Marketing Pathway or Business Management & Entrepreneurship Pathway

This course will acquaint students with management opportunities and effective human relations providing students with the skills to perform planning, staffing, financing, and controlling functions within a business. Students will be exposed to macro-level study of the business world, including business structure and finance, and the interconnections among industry, government, and the global economy. The course will emphasize problem-based, real-world applications of business concepts and use accounting concepts to formulate, analyze, and evaluate business decisions.

### Legal Proceedings Applications

SS 487 AP/BP

Grade Level: 11  
Two Semesters - 1.0 credit  
Prerequisite: Practical Law Fundamentals

21

The focus of this course is criminal law. Students will examine the connection between the Constitution and the courts - how laws are created, enforced, interpreted and changed. The course enables students to examine diverse areas of law, including criminal, civil, constitutional and international. Topics include the mental and physical elements of criminal offenses, categories of crimes, and criminal responsibility and defenses, civil rights issues and the role of advocacy, civics and the media in our legal system. Case studies, simulations, integration of technology, and guest speakers will be an integral part of this course. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Civic Leadership Academy and is a required course in the Legal strand.**

### Practical Law Fundamentals

SS 486P

Grade Level: 10  
One Semester- 0.5 credit--To be taken 1st semester  
Prerequisite: Introduction to Civic Leadership

21

In this course, students will examine the basic legal structures and in this course, students will examine the basic legal structures and functions of government including the court system and processes to develop problem-solving skills in our legal society. Students will be introduced to an overview of law, including criminal law, contract law, family law, business and employment law, juvenile law, and immigration law. Case studies, simulations, integration of technology, and guest speakers will be an integral part of this course. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Civic Leadership Academy and is a required course in the Legal strand.**

### Civic Leadership Work Experience

SS 490 AP/BP

Grade Level: 12  
One Semester - 1.0 credit

21

Prerequisite: Government and Public Relations Applications II OR Legal Proceedings Applications

This course applies the skills needed in government and public administration professions through the application of leadership and teamwork within the classroom or as an intern at a work location. Topics may include working with budgets, negotiation/communication with co-workers, developing proposals, making oral presentations and making informed decisions to meet an identified need. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Civic Leadership Academy. Open to Civic Leadership Academy students who are meeting academy expectations**

### Forensic Science

SC 670 AP/BP

Grade Level: 11, 12  
Two Semesters - 1.0 credit



21

This course explores the principles and skills used in forensic science. Topics within the course focus on collection and analysis of crime scene evidence and will be presented through interactive lectures, laboratory studies, mock crime scene processing, and guest speakers. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Public Safety Academy and is required for the Law Enforcement strand.**

# CORRECTIONS, SECURITY & LAW ENFORCEMENT

## CAREER PATHWAYS COURSES

### Hazardous Materials for the First Responder PS 350P

Grade Level: 12  
One Semester - 0.5 credit  
Prerequisite: Fire Rescue II

21

This course is designed to prepare students how to develop an emergency response contingency plan to deal with hazardous material or chemical emergencies in compliance with regulations in order to protect human health and the environment as well as to minimize an organization's risks. Students will also implement the various portions of the plan as required. Students will be provided the opportunity to take the third-party Fire Fighter I certification test upon completion of Fire Science I, II and Hazmat Awareness classes. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Public Safety Academy. Course is taken 1st semester of Senior year as part of the Capstone experience.**

### Introduction to Public Safety - Fire Science PS 305P

Grade Level: 9, 10  
Two Semesters - 0.5 credits

21

This course provides students with knowledge of careers in public safety with an emphasis on fire science. The course will showcase the myriad of specialty disciplines existing as a subset within fire service emergency response. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Public Safety Academy.**

### Introduction to Public Safety - Law Enforcement PS 300P

Grade Level: 9, 10  
Two Semesters - 0.5 credits

21

This introductory level course is designed to provide students with knowledge of careers in public safety with an emphasis on law enforcement. The course will emphasize ethics and responsibility, safety, and types of crime through hands-on experiences. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Public Safety Academy.**

### Law Enforcement I PS 330 AP/BP

Grade Level: 10, 11  
Two Semesters - 1.0 credit  
Prerequisite: Introduction to Public Safety

21

This course provides students with an introduction to administration of justice. Topics covered will include the criminal justice system, policing in the United States, the United States government and the court system, individual rights and liberties, the corrections system in America, juvenile justice, and the future of criminal justice in America. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Public Safety Academy.**

### Law Enforcement II PS 340 AP/BP

Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Law Enforcement I

21

This course is designed, when combined with Law Enforcement I, to give students the knowledge and skills to enter a law enforcement academy or other post-secondary programs in the area of law enforcement. Topics covered in the course include effective police operations, the role of specialized police operations, and the personal side of police operations, including physical and mental health and ethics. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Public Safety Academy.**

### Public Safety Physical Education PE 425 AP/BP

Grade Level: 10, 11  
Two Semesters - 1.0 credit

21

This course prepares students with the knowledge and physical skills needed to enter the field of law enforcement or fire safety while focusing on strength, endurance, fitness, and health. Student course work will also include CPR and First Aid certification as well as the state-required Health component. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Public Safety Academy.**

### Public Safety Capstone - Fire Science PS 690P

Grade Level: 12  
One Semester - 0.5 credit  
Prerequisite: Hazardous Materials for the First Responder

21

This course is a culmination of the 4-year academy plan of study and involves a student Professional Learning Experience. This class provides a culmination activity that synthesizes a student's academy learning and helps students further define their post-secondary plans. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Public Safety Academy. Course is taken 2nd semester of Senior year as part of the Capstone experience.**

### Public Safety Capstone - Law Enforcement PS 680 AP/BP

Grade Level: 12  
One Semester - 1.0 credit

21

This course is a culmination of the 4-year academy plan of study and involves a student Professional Learning Experience. This class provides a culmination activity that synthesizes a student's academy learning and helps students further define their post-secondary plans. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Public Safety Academy. Open to Public Safety Academy students who are meeting academy expectations.**



Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	21st Century Academy only	eLearning available	GRADUATION REQUIREMENT	Applied Communication	Fine Art	Practical & Consumer	Technology
		9	10	11	12									
BU 500P	Business Essentials	•	•			0.5	I					✓		
LA 840 AP/BP	Digital Media Technology: Yearbook	•	•	•	•	1.0	T			✓		✓	✓	
CP 420 AP/BP	Editorial Leadership Design and Production			•	•	1.0	A			✓		✓	✓	
CP 455P	Graphic Design I	•	•	•	•	0.5	T			✓	✓		✓	
CP 458P	Graphic Design II	•	•	•	•	0.5	T			✓	✓		✓	
LA 820P	Intro To Journalism	•	•	•		0.5	T			✓		✓		
LA 825 AP/BP	Media & Public Relations: Newspaper	•	•	•	•	1.0	T			✓		✓	✓	
LA 470 AP/BP	Photojournalism	•	•	•	•	1.0	T			✓		✓	✓	
IT 820P	Video Production I	•	•	•	•	0.5	T			✓		✓	✓	
IT 900 AP/BP	Video Production II			•	•	1.0	A			✓		✓	✓	
<b>e-Communication Academy Courses</b>														
PA 810 AP/BP	Sports Information Directors			•	•	1.0	T	21		✓		✓	✓	
CP 725 AP/BP	e-Communication Senior Capstone I & II-Video				•	2.0	A	21		✓		✓	✓	

Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.

### Business Essentials BU 500P

Grade Level: 9, 10  
One Semester - 0.5 credit

This course is designed for the student who seeks an introduction to business, marketing, and management. Students will develop the skills necessary to succeed in the business environment by studying forms of business ownership, functions of management, budgeting and finance, accounting, business communications, law, marketing, and economics. This course is appropriate for any student interested in Entrepreneurship and owning their own business.

### Digital Media Technology: Yearbook LA 840 AP/BP

Grade Level: 9, 10, 11, 12  
Two Semesters - 1.0 credit

Students will receive instruction in and will practice the various types of copy writing, editing, graphic design, layout, headline writing, and other journalistic skills. These skills will be evidenced in the school yearbook. Students will conduct the business of the yearbook, such as advertising sales, billing, and distribution. Students will also explore the role and uses of a variety of digital media. **Guided Enrollment Note: This course may be repeated by permission of the instructor. Students should complete an application prior to spring enrollment. It is highly recommended that students take Intro to Journalism OR Basic Digital Photography OR Graphic Design prior to enrollment.**

### e-Communication Senior Capstone I & II-Video CP 725 AP/BP

Grade Level: 12  
Two Semesters - 2.0 credit

Prerequisite: Video Production II OR Sports Information Directors OR Editorial Leadership Design & Production

This course is a culmination of the 4-year academy plan of study and involves a student Professional Learning Experience. The course synthesizes a student's academy learning and helps students further define their post-secondary plans. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the e-Communication Academy. Open to e-Communication Academy students who are meeting academy expectations.**

### Editorial Leadership Design & Production CP 420 AP/BP

Grade Level: 11, 12  
Two Semesters - 1.0 credit

Prerequisite: Digital Media Technology: Yearbook OR Media & Public Relations: Newspaper

This course guides students through the day-to-day management of scholastic media outlets, emphasizing the development of skills in human relations, oral and written communication, critical thinking, advanced problem-solving, development of plans for project management, and resource scheduling. This class is designed to help student editors meeting the stringent demands of leading a group toward a common goal. **Guided Enrollment Note: Course may be repeated for credit.**

21

# DIGITAL MEDIA

## CAREER PATHWAYS COURSES

### Graphic Design I

CP 455P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Students will develop knowledge in commercial graphic design as a form of visual and artistic communication while learning to effectively communicate ideas and information to business and customer audiences via illustration and other forms of digital or printed media. Students will learn design elements and principles, concept design, layout and develop technical skills needed to produce a variety of publications. In addition, students will discover a wide range of career possibilities available to a graphic designer. Students will begin to develop a portfolio of work. **Guided enrollment Note: This course is offered at all high schools with open enrollment and is a required course for students pursuing the Graphic Design Strand of the 21st Century e-Communication Academy.**

### Graphic Design II

CP 458P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Graphic Design I

Students will advance their knowledge and skills of graphic design, illustration and image manipulation. Students will acquire knowledge of page layout, create digital illustrations to effectively communicate ideas and information to business and customer audiences. Course topics include the ways in which visual messages are used in society, the skills needed by a graphic designer and the potential areas of specialization and employment. Students will continue to build a portfolio of work. **Guided enrollment Note: This course is offered at all high schools with open enrollment and is a required course for students pursuing the Graphic Design Strand of the 21st Century e-Communication Academy.**

### Introduction to Journalism

LA 820P

Grade Level: 9, 10, 11  
One Semester - 0.5 credit



Students will receive instruction in and will practice the various types of journalistic writing, editing, page design, headline writing, and other journalistic skills. These skills will be evidenced in products such as the school newspaper, the newspaper's website, podcasts, and/or video productions.

### Media & Public Relations: Newspaper

LA 825 AP/BP

Grade Level: 9, 10, 11, 12  
Two Semesters - 1.0 credit

Prerequisite: Intro to Journalism recommended

Students will advance their knowledge and skills in journalistic writing, editing, page design, headline writing, and other journalistic skills. These skills will be evidenced in products such as the school newspaper, the newspaper's website, podcasts, and/or video productions. Students will also conduct the business of the newspaper, such as advertising sales, billing, and distribution. **Guided Enrollment Note: This course may be repeated by permission of the instructor. Students should complete an application prior to spring enrollment.**

### Photojournalism

LA 470 AP/BP

Grade Level: 9, 10, 11, 12  
Two Semesters - 1.0 credit

The primary focus of this class is to provide instruction and opportunities for the student wanting to develop photography skills and/or to pursue journalism via photography. The products from this class will be published in the school newspaper, the newspaper's and school's webpages, and the school yearbook. Competition opportunities will also be available. **Guided Enrollment Note: Out-of-class time is required at after school events.**

### Sports Information Directors (SID)

PA 810 AP/BP

Grade Level: 11, 12  
Two Semesters - 1.0 credit

21

Prerequisite: Introduction to Journalism AND Video Production I

Sports and Entertainment Marketing courses introduce students to and help them refine marketing and management functions and tasks that can be applied in amateur or professional sports or sporting events, entertainment or entertainment events, and the sales or rental of supplies and equipment. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the e-Communication Academy.**

### Video Production I

IT 820P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This course focuses on the basic concepts of video production for a variety of uses. Students integrate a variety of communications with an emphasis on broadcasting, video production and music production. 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. **Guided Enrollment Note: Out-of-class time is required. A lab fee may be required. Fee scholarships are available.**

### Video Production II

IT 900 AP/BP

Grade Level: 11, 12  
Two Semesters - 1.0 credit

Prerequisite: Video Production I

This course builds on the technical knowledge gained in Video Production I by allowing students to orchestrate projects from setting the objectives to the post-production evaluation. Emphasis is placed on the production of public service announcements, features, documentaries, broadcasting, radio disc-jockey, and special event or highlight videos. The focus of the course is on the entire process of planning the presentation, setting up the studio, acting as videographer and editor to make a fluid and seamless product. **Guided Enrollment Note: Out-of-class time is required. Students should complete an application prior to spring enrollment. This course may be repeated by permission of the instructor.**

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	21st Century Academy only	OATC Program	College Now	GRADUATION REQUIREMENT	Physical Education	Practical & Consumer
		9	10	11	12								
<b>OATC Emergency Medical Services Courses</b>													
VE 541P	Basic Life Support for Healthcare Providers				•	0.5	T		◆	✓		✓	
VE 550P	Emergency Medical Services (EMS)				•	1.0	A		◆			✓	
SC 504P	Medical Terminology			•	•	0.5	A		◆	✓		✓	
<b>Public Safety Academy Courses</b>													
PS 305P	Introduction to Public Safety - Fire Science	•	•			0.5	I	21				✓	
PE 425 AP/BP	Public Safety Physical Education		•	•		1.0	T	21			✓		
PS 310 AP/BP	Fire Science I		•	•		1.0	T	21		✓		✓	
PS 320 AP/BP	Fire Science II			•	•	1.0	A	21		✓		✓	
PS 350P	Hazardous Materials for the First Responder				•	0.5	T	21		✓		✓	
PS 690P	Public Safety Capstone - Fire Science				•	0.5	A	21				✓	

Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.

### Basic Life Support for Healthcare Providers

VE 541P

Grade Level: 12  
 One Semester - 0.5 credit  
 Prerequisite: Medical Terminology



This technical level course will instruct students in the requirements and skills to obtain national certifications for First Aid, CPR and Emergency Medical Responder. **Guided enrollment note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Emergency Medical Specialties (EMS) program.**

### Emergency Medical Services (EMS)

VE 550P

Grade Level: 12  
 One Semester - 1.0 credit



This course is designed to provide training in emergency medical care for those who are apt to be the first persons responding to an emergency incident. The student will receive both didactic and psychomotor skills training in CPR, patient assessment, fracture management, airway management and trauma management. Successful completion of this course with a minimum grade of "C" will enable the student to sit for the First Responder certification exam administered by the Kansas Board of Emergency Medical Services. The First Responder course meets the standards for Emergency Medical Responder (EMR) training and testing. **Guided Enrollment Note: This course is offered for college credit through partnership with JCCC and is offered only at OATC as part of the Emergency Medical Specialties strand.**

### Fire Science I

PS 310 AP/BP

Grade Level: 10, 11  
 Two Semesters - 1.0 credit  
 Prerequisite: Introduction to Public Safety



This course is designed, when combined with Fire Science II, to give students the knowledge and skills to enter a fire safety post-secondary program or other fields of study or careers in the area of fire safety. Topics covered include fire department communications, fire ground operations, rescue operations, safety, preparedness, and maintenance. Students will be provided the opportunity to take the third-party Fire Fighter I Certification test upon completion of Fire Science I & II and Hazmat Awareness classes. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Public Safety Academy.**

### Fire Science II

PS 320 AP/BP

Grade Level: 11, 12  
 Two Semesters - 1.0 credit  
 Prerequisite: Fire Science I



This course is designed, when combined with Fire Science I, to give students the knowledge and skills to enter a fire safety post-secondary program or other fields of study or careers in the area of fire safety. Topics covered include fire department communications, fire ground operations, rescue operations, safety, preparedness, and maintenance. Students will be provided the opportunity to take the third-party Fire Fighter I certification test upon completion of Fire Science I & II and Hazmat Awareness classes. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Public Safety Academy.**

# EMERGENCY & FIRE MANAGEMENT SERVICES

## CAREER PATHWAYS COURSES

### Hazardous Materials for the First Responder

PS 350P

Grade Level: 12  
 One Semester - 0.5 credit  
 Prerequisite: Fire Rescue II

21

This course is designed to prepare students how to develop an emergency response contingency plan to deal with hazardous material or chemical emergencies in compliance with regulations in order to protect human health and the environment as well as to minimize an organization's risks. Students will also implement the various portions of the plan as required. Students will be provided the opportunity to take the third-party Fire Fighter I certification test upon completion of Fire Science I, II and Hazmat Awareness classes. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Public Safety Academy.**

### Public Safety Capstone - Fire Science

PS 690P

Grade Level: 12  
 One Semester - 0.5 credit  
 Prerequisite: Hazardous Materials for the First Responder

21

This course is a culmination of the 4-year academy plan of study and involves a student Professional Learning Experience. This class provides a culmination activity that synthesizes a student's academy learning and helps students further define their post-secondary plans. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Public Safety Academy. Open to Public Safety Academy students who are meeting academy expectations.**

### Introduction to Public Safety - Fire Science

PS 305P

Grade Level: 9, 10  
 Two Semesters - 0.5 credits

21

This course provides students with knowledge of careers in public safety with an emphasis on fire science. The course will showcase the myriad of specialty disciplines existing as a subset within fire service emergency response. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Public Safety Academy.**

### Medical Terminology

SC 504P

Grade Level: 11, 12  
 One Semester (1st sem)- 0.5 credit  
 Healthcare Science I AND Emergency Medical Specialties (EMS) programs



This course will introduce students to systematically identify medical terms by analyzing their components. The course will emphasize defining medical prefixes, root words, suffixes, and abbreviations as well as in introduction to basic medical math. The primary focus is on developing both oral and written skills in the language used to communicate within health care professions. This course is designed for the student who is interested in any facet of the healthcare industry. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Healthcare Science Program.**

### Public Safety Physical Education

PE 425 AP/BP

Grade Level: 10, 11  
 Two Semesters - 1.0 credit

21

This course prepares students with the knowledge and physical skills needed to enter the field of law enforcement or fire safety while focusing on strength, endurance, and fitness. Student course work will also include CPR and First Aid certification. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Public Safety Academy.**

# ENERGY

## CAREER PATHWAYS COURSES

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	21st Century Academy only	College Now	NCAA Approved	Weighted Grade	GRADUATION REQUIREMENT	Practical & Consumer	Science - Life	Science - Physical	Technology	
		9	10	11	12												
SC 490 AP/BP	AP Environmental Science			•	•	1.0	T		✓	✓	▲			✓			
<b>Green Tech Academy Courses</b>																	
GT 300P	Investigations in Green Tech-Energy	•				0.5	I	21									
GT 415 AP/BP	Energy, Power & Society		•	•		1.0	T	21		✓					✓	✓	
GT 420 AP/BP	Energy Industry Fundamentals			•		1.0	T	21							✓	✓	
GT 790 AP/BP	Green Tech Senior Capstone-Energy				•	1.0	A	21						✓			
<p>Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.</p>																	

### AP Environmental Science SC 490 AP/BP

Grade Level: 11, 12  
 Two Semesters - 1.0 credit   
 Prerequisite: Biology and Chemistry

This lab and field-based course provides students with scientific principles, concepts and methodologies required to understand the interrelationships in the natural world; to identify and analyze environmental problems, both natural and human-caused, to evaluate the relative risks associated with these problems, and to examine alternative solutions for reducing and/or preventing them. This course includes concepts from many disciplines of science.

### Investigations in Green Tech-Energy GT 300P

Grade Level: 9 **21**  
 One Semester - 0.5 credit

This course is designed to provide students with a basic understanding of environmental issues and sustainable practices. Two aspects of green technology will be stressed: energy and sustainability. Hands-on projects will generate interest in and passion for environmental issues. Protecting the environment and alternative energy generation are an important part of the students' experience. Careers in green technology and the requirements to obtain various positions will also be discussed. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Green Tech Academy.**

### Energy, Power & Society GT 415 AP/BP

Grade Level: 10, 11 **21**  
 Two Semesters - 1.0 credit   
 Prerequisite: Investigations in Green Tech I & Investigations in Green Tech-Energy

This course is designed to introduce students to the terminology and other aspects of the wind industry and further their knowledge of renewable and non-renewable energy and fuels, natural resource management, water quality and land use. Course topics will include the history of the wind industry, types and applications of various wind turbines, environmental and economic issues of the wind industry, and the future of the industry. There will be a focus on project based learning, with students applying their skills and knowledge in real-world settings. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Green Tech Academy.**

### Energy Industry Fundamentals GT 420 AP/BP

Grade Level: 11 **21**  
 Two Semesters - 1.0 credit

This course provides a broad understanding of the electric and natural gas utility industry and the energy generation, transmission, and distribution infrastructure. The course includes business models, regulations, types of energy and their conversion to useable energy such as electric power, emerging technologies, how generated power is transmitted and distributed to the point of use, and the connection to careers in the energy industry. The students have an opportunity to earn a nationally recognized industry credential by course end. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Green Tech Academy.**

### Green Tech Senior Capstone-Energy GT 790 AP/BP

Grade Level: 12 **21**  
 One Semester - 1.0 credit

This course is a culmination of the 4-year academy plan of study and involves a student Professional Learning Experience. This class provides a culmination activity that synthesizes a student's academy learning and helps students further define their post-secondary plans. **Guided Enrollment Note: This course is offered only at Olathe West High School as part of the Green Tech Academy. Open to Green Tech Academy students who are meeting academy expectations**

# ENGINEERING & APPLIED MATHEMATICS

## CAREER PATHWAYS COURSES

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	21st Century Academy only	OATC Program	College Now	GRADUATION REQUIREMENT	Practical & Consumer	Science - Physical	Fine Art	Technology
		9	10	11	12										
IT 411P	Engineering Drafting/CAD I	•	•	•	•	0.5	T				✓			✓	
IT 420P	Engineering Drafting/CAD II	•	•	•	•	0.5	T				✓			✓	
<b>Design Academy Courses</b>															
AR 755 AP/BP	Product Design Engineering		•			1.0	T	21			✓		✓	✓	
IT 552 AP/BP	Design & Development			•		1.0	A	21			✓			✓	
IT 792 AP/BP	Design Senior Capstone				•	1.0	A	21			✓			✓	
IT 795 AP/BP	Design & Engineering Workplace Experience				•	1.0	A	21			✓			✓	
<b>Engineering Academy Courses</b>															
IT 392 AP/BP	Introduction to Engineering	•				1.0	I	21			✓			✓	
IT 520	Advanced Engineering CAD III		•	•	•	0.5	T	21			✓			✓	
IT 416 AP/BP	Principles of Applied Engineering			•		1.0	T	21			✓			✓	
SC 662P	Materials Science in Engineering			•	•	0.5	A	21				✓			
SC 785 AP/BP	Engineering Senior Capstone			•	•	1.0	A	21			✓				
IT 795 AP/BP	Design & Engineering Workplace Experience				•	1.0	A	21			✓			✓	
<b>OATC Electronics &amp; Avionics Courses</b>															
VE 700P	Foundation of Electronics			•	•	1.0	T		◆	✓	✓			✓	
VE 720P	Digital Electronics			•	•	1.0	A		◆	✓	✓			✓	
<p>Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.</p>															

### Advanced Engineering CAD III

IT 520

Grade Level: 11, 12

One Semester - 0.5 credit

Prerequisite: Engineering Drafting/CAD II

21

Students undertake an in-depth study in the skills of designing, problem-solving, and CAD with emphasis on presentation and construction drawings of mechanical objects and their impacts on manufacturing. All students prepare a professional portfolio demonstrating work. Hands-on laboratory activities provide the primary means of learning. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the Engineering Academy.**

### Design & Development

IT 552 AP/BP

Grade Level: 11

Two Semesters - 1.0 credit

Prerequisite: Product Design Engineering

21

This is a hands-on, project-based class focusing on the design process using design thinking. Students will learn researching, concept development and prototyping skills needed for any design project whether it is in architecture, product or other design fields. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Design Academy.**

### Design & Engineering Workplace Experience

IT 795 AP/BP

Grade Level: 12

Two Semesters - 1.0 credit

Prerequisite: Product Design Engineering OR

Commercial Design AND Advanced Studies in Design

21

This course affords the student the opportunity to apply classroom knowledge to an actual work environment. It will provide selected advanced electronics, engineering & design technology students with appropriate on-the-job experience with area employers, under instructional oversight, that will promote the student's career goals. Enrollment is dependent upon securing approved and appropriate work activity. Student must provide own transportation to and from work site location. **Guided Enrollment Note: This course is offered only at Olathe East and Olathe Northwest, as part of the Design Academy and Engineering Academy. Open to Design Academy and Engineering Academy students who are meeting academy expectations.**

### Design Senior Capstone

IT 792 AP/BP

Grade Level: 12

Two Semesters - 1.0 credit

21

This course is a culmination of the 4-year academy plan of study and involves a student Professional Learning Experience. This class synthesizes a student's academy learning and helps students further define their post-secondary plans. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Design Academy. Open to Design Academy students who are meeting academy expectations.**

### Digital Electronics

VE 720P

Grade Level: 11, 12  
One Semester (2-hour block)- 1.0 credit



This is a technical level course in which students will study and practice the basic concepts of digital electronics. Topics will include digital number systems, logic gates, logic circuits, flip-flops, digital arithmetic, counters and registers. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center. (OATC).**

### Engineering Drafting/CAD I

IT 411P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This course will help students learn to utilize CAD software as a design tool for engineering, as well as fundamentals of manual orthographic drawings. Several forms of graphic and electronic communication are explored. Students are exposed to graphic design, problem-solving, research and design, and model construction. This class introduces students to 3D computer generated modeling and design.

### Engineering Drafting/CAD II

IT 420P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Engineering Drafting/CAD I

This drawing course will focus on communication skills used by professionals in various fields of engineering. 3D computer generated modeling and design is the primary technical skill applied in this class. Students are presented with problem-solving situations involving the various types of communication systems. This course is recommended for any student interested in a career in one of the many related fields of Engineering or CAD technology.

### Engineering Senior Capstone

SC 785 AP/BP

Grade Level: 11, 12  
Two Semesters - 1.0 credit

21

This course is a culmination of the 4-year academy plan of study and involves a student Professional Learning Experience. This class synthesizes a student's academy learning and helps students further define their post-secondary plans. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the Engineering Academy. Open to Engineering Academy students who are meeting academy expectations.**

### Foundation of Electronics

VE 700P

Grade Level: 11, 12  
One Semester (2-hour block)- 1.0 credit



This is a beginning course in electronics technology that is appropriate for both electronic majors and other interested students. An overview of basic electronic theory, principles and components is presented. In addition, the laboratory exercises will emphasize the operation and use of the primary pieces of electronic test equipment and the fabrication of selected circuits. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center. (OATC).**

### Introduction to Engineering

IT 392 AP/BP

Grade Level: 9  
Two Semesters - 1.0 credit

21

In this introductory level course, students discover the engineering design process through hands-on and collaborative environment. Students explore STEM processes while utilizing the tools of scientific inquiry, problem solving, and data analysis to evaluate and optimize designs. Units on safety and tools, computer use, design, automation, robotics, space, flight, and electricity will be studied. Students will enhance their critical and innovative thinking skills through design challenges as they survey the diverse and exciting career pathway of engineering. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the Engineering Academy.**

### Materials Science in Engineering

SC 662P

Grade Level: 11, 12  
One Semester - 0.5 credit

21

Students in this course will be exposed to the tools, machines, and processes that may be encountered in the interface between manufacturing and engineering while integrating concepts from chemistry, physics, and math to understand how the atomic structure of matter determines the physical characteristics that make materials useful to designers. In particular, this course stresses the study of properties and analysis of those materials: testing and processing metals, polymers, ceramics, and composite materials utilized in the process of constructing usable products. The course combines hands-on design projects while learning the science behind the essential properties of metals, polymers, ceramics, and composites. Students will gain an understanding of the importance of materials science topics in all fields of engineering while also enhancing their engineering design skills. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the Engineering Academy.**

### Principles of Applied Engineering

IT 416 AP/BP

Grade Level: 11  
Two Semesters - 1.0 credit

21

This technical level course is designed to expand student knowledge in the area of applied engineering emphasizing the application of engineering design skills to multidisciplinary projects and the development of effective technical communication skills. Students will explore basic computer programming for controlling motors and servos while interpreting data from various sensors as part of a robotics design project. Projects will require students to integrate concepts from mechanical, electrical, and materials engineering. Students also will develop skills in using statistics to improve a design solution through iterative use of measurements of the performance of prototypes. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the Engineering Academy.**

### Product Design Engineering

AR 755 AP/BP

Grade Level: 10  
Two Semesters - 1.0 credit

21

Prerequisite: Introduction to Design I and II

This is a project based class focusing on the Product/Industrial Design process and will take students through a full product design process from concept development to manufacturing. Students undertake an in-depth study in the skills of designing, problem-solving, and CAD with emphasis on product development and manufacturing methods. Students will develop a prototype and renderings for presentation. All students prepare a professional presentation and portfolio demonstrating work. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Design Academy.**

# FAMILY, COMMUNITY & CONSUMER SERVICES

## CAREER PATHWAYS COURSES

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	eLearning available	GRADUATION REQUIREMENT	Practical & Consumer
		9	10	11	12					
HE 560P	Culinary Essentials	•	•	•	•	0.5	T		✓	
HE 411P	Family Studies		•	•	•	0.5	T		✓	
HE 413P	Lifespan Development	•	•	•	•	0.5	T		✓	
HE 615P	Nutrition & Wellness	•	•	•	•	0.5	T		✓	
HE 430P	Relationships & Personal Development			•	•	0.5	T		✓	
HE 476P	Career Connections				•	0.5	A		✓	
HE 475P	Community Connections			•	•	0.5	A		✓	

Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.

### Career Connections

HE 476P

Grade Level: 12

One Semester - 0.5 credit

Prerequisite: 1.0 credit within one of the following pathways: Family, Community, Consumer Services; Fashion, Apparel, Interior Design (FAID); or Restaurant & Event Management.

Career Connections provides human services/family and consumer sciences related work-based learning experiences (paid or unpaid) outside the traditional classroom. Learning goals are set by the student, teacher and employer/adult mentor to create field experiences and/or discussions related to human services/ family and consumer sciences occupational technical skills. **Guided Enrollment Note: Enrollment requires approval by FCS instructor.**

### Community Connections

HE 475P

Grade Level: 11, 12

One Semester - 0.5 credit

Prerequisite: 1.0 credit concurrent or completed within Family, Community, & Consumer Services pathway

Community Connections provides community based/school-based learning experiences typically within the family and consumer sciences classroom. Learning goals are set by the student, teacher and community partners to create experiences and/or discussions to enhance the development of the workplace skills (e.g. leadership, empathy, communication, problem solving, cooperation, critical thinking, and resource management) needed to be successful in service related careers.

### Culinary Essentials

HE 560P

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

This course will prepare students for careers or post-secondary programs related to the Culinary Arts. The course will include knife skills and a variety of cooking techniques. Students will expand their knowledge of flavor profiles. **Guided Enrollment Note: This class is strongly recommended for the Culinary Arts program located at Olathe Advanced Technical Center.**

### Family Studies

HE 411P

Grade Level: 10, 11, 12

One Semester - 0.5 credit

This course explores the roles and responsibilities of parents including parenting styles and family stages, reproduction and prenatal development, and the development of children and parents as their earliest teacher. Parenting and behavior guidance skills are strengthened through a study of positive family relationships, child abuse and neglect, safety, and health practices. Many real-life experiences will be introduced through the use of Real-Care Babies, Empathy Belly simulators, and guest speakers. Occupations related to meeting the needs of families will be analyzed.

### Lifespan Development

HE 413P

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

Life Span Development prepares students for occupations associated with meeting the needs of people by learning about physical, intellectual, emotional and social development from childhood to death. In addition, this course helps students discover how individuals respond to the various stages of the life span with a strong tie to teen years, adulthood and later years.

### Nutrition & Wellness

HE 615P

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

Nutrition & Wellness will prepare students to explore different components of wellness which include physical, social, and emotional health. Students will prepare for careers in nutrition and wellness by taking an in-depth look at various types of diets, nutrition information, disease prevention, and physical activity to identify and apply healthy practices for a lifetime of wellness.



### Relationships & Personal Development

HE 430P

Grade Level: 11, 12

One Semester - 0.5 credit

Relationships and Personal Awareness provides students with ability to develop intrapersonal, interpersonal and cognitive competencies in personal, family, career and community settings. Students will analyze the impact of conditions that could influence the well-being of individuals, families and communities. Human services related career opportunities are incorporated throughout the course.

# F.A.I.D. (FASHION, APPAREL, INTERIOR DESIGN)

## CAREER PATHWAYS COURSES

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	21st Century Academy only	GRADUATION REQUIREMENT	Practical & Consumer
		9	10	11	12					
HE 858P	Apparel Production I	•	•	•	•	0.5	T		✓	
HE 859P	Apparel Production II		•	•	•	0.5	T		✓	
HE 835P	Essentials of Fashion, Apparel, Interior Design	•	•	•	•	0.5	T		✓	
HE 846P	Fashion Trends I	•	•	•	•	0.5	T		✓	
HE 848P	Fashion Trends II		•	•	•	0.5	T		✓	
HE 841P	Interior Design I	•	•	•	•	0.5	T		✓	
HE 855P	Interior Design II		•	•	•	0.5	T		✓	
HE 476P	Career Connections				•	0.5	A		✓	
HE 866 AP/BP	FAID Studio				•	1.0	A		✓	
<b>Design Academy Courses</b>										
IT 404P	Introduction to Design I	•				0.5	I	21	✓	
<p>Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.</p>										

### Apparel Production I

HE 858P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Apparel Production I will provide students with the knowledge and skills to construct, alter, and repair clothing and textile products. Course topics typically include taking measurements, learning foundational sewing terms and applying sewing techniques to all projects.

### Apparel Production II

HE 859P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Apparel Production I

Apparel Production II will expand upon the various aspects of garment construction and the textile industry, conveying the commercial application of design principles, production processes, and maintenance techniques. **Guided Enrollment Note: This course can be repeated with instructor permission.**

### Career Connections

HE 476P

Grade Level: 12  
One Semester - 0.5 credit  
Prerequisite: 1.0 credit within one of the following pathways: Family, Community, Consumer Services; Fashion, Apparel, Interior Design (FAID); or Restaurant & Event Management.

Career Connections provides human services/family and consumer sciences related work-based learning experiences (paid or unpaid) outside the traditional classroom. Learning goals are set by the student, teacher and employer/adult mentor to create field experiences and/or discussions related to human services/ family and consumer sciences occupational technical skills. **Guided Enrollment Note: Enrollment requires approval by FCS instructor.**

### Essentials of Fashion, Apparel, Interior Design (FAID)

HE 835P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Essentials of FAID is **HIGHLY RECOMMENDED** as the first course to introduce students to the fashion, apparel, and interior design industries. Concepts covered will include elements and principles of design, textiles, and production processes as well as provide a discussion and exploration of career opportunities. Students will present work through various mediums.

## FAID Studio

HE 866 AP/BP

Grade Level: 12

Two Semesters - 1.0 credits

Prerequisite: 1 full credit completed within the Fashion, Apparel, Interior Design Pathway

FAID Studio is for the student who has an interest in the design industry. Students will create a variety of studio projects that involve retail design, commercial design, graphic design, and costume & set design. Internships will offer students extended learning opportunities. Students will work individually and in teams, to solve real-world, design industry problems.

## Fashion Trends I

HE 846P

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

Fashion Trends I provide students an opportunity to explore topics in the fashion industry. Content includes history of fashion, trend and color forecasting, garment styles, fashion illustration, client projects, and how trends are developed. Students will learn how to professionally present work including digital portfolios, mood boards, and display presentations.

## Fashion Trends II

HE 848P

Grade Level: 10, 11, 12

One Semester - 0.5 credit

Prerequisite: Fashion Trends I

Fashion Trends II is a course that centers upon the merchandising of fashion products. Topics include exploring fashion trends and cycles, visual merchandising, digital illustration, children's wear, costume design, brand development, and entrepreneurship.

## Interior Design I

HE 841P

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

Interior Design I is a course that will focus on the design industry with an emphasis on interior design concepts. Topics will include housing and design styles, accessories, client selections, pattern pallets, and drafting floor plans. Projects are integrated throughout the course to provide authentic applications in design basics, color, lighting and furniture arrangement.

## Interior Design II

HE 855P

Grade Level: 10, 11, 12

One Semester - 0.5 credit

Prerequisite: Interior Design I

Interior Design II will prepare students for careers and/or post-secondary programs related to housing and the commercial design industry. Students will have the opportunity to explore remodeling, designing new interior spaces, working with a client, personal marketing, modern design, and career options. Students will also practice professional presentation skills using industry level technology.

## Introduction to Design I

IT 404P

Grade Level: 9

One Semester - 0.5 credit

21

This exploratory course examines a variety of aspects that encompass the designed environment in which we work, live and play. Students will observe skills designers use to create the products and places people interact with daily. This class includes an overview of the design process, observational drawing, introduction to CAD, and various other graphic communication methods and technology. Students survey various design fields and create fundamental projects that incorporate many design careers. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Design Academy.**

# GOVERNMENT & PUBLIC ADMINISTRATION

## CAREER PATHWAYS COURSES

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	21st Century Academy only	GRADUATION REQUIREMENT	Applied Communication	Practical & Consumer	Social Studies	Technology
		9	10	11	12								
BU 560P	Accounting I	•	•	•	•	0.5	T			✓			
BU 565P	Accounting II	•	•	•	•	0.5	T			✓		✓	
SS 612P	Business Economics	•	•	•	•	0.5	T			✓	✓		
BU 540P	Business Law	•	•	•	•	0.5	T			✓			
HE 413P	Lifespan Development	•	•	•	•	0.5	T			✓			
HE 476P	Career Connections				•	0.5	A			✓			
SS 510 AP/BP	United States History			•	•	1.0					✓		
SS 515 AP/BP	AP United States History			•	•	1.0					✓		
SS 710P	United States Government				•	0.5					✓		
SS 715P	AP United States Government and Politics				•	0.5					✓		
<b>Civic Leadership Academy Courses</b>													
SS 480P	Introduction to Civic Leadership	•				0.5	I	21		✓			
SS 482P	Public Administration Fundamentals		•			0.5	T	21		✓		✓	
SS 486P	Practical Law Fundamentals		•			0.5	T	21		✓	✓		
SS 487 AP/BP	Legal Proceedings Applications			•		1.0	A	21		✓		✓	
SS 484P / SS 485P	Government and Public Relations Applications I & II			•		1.0	A	21		✓		✓	
SS 490 AP/BP	Civic Leadership Work Experience				•	1.0	A	21		✓			
<p>Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.</p>													

### Accounting I

BU 560P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Accounting is the language of business and will be required of anyone attending a business school or pursuing a major or minor in business in college. This course is the first in a sequence of three courses providing a foundation which supports both college-level coursework and personal financial experiences.

### Accounting II

BU 565P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Accounting I

Accounting II reviews the basic concepts learned in the first semester and expands into areas of payroll, special journals, cash register systems, uncollectible accounts, and depreciation. Computers are utilized in the course to reinforce accounting cycle knowledge and give students a realistic view of how many businesses perform accounting tasks.

### AP United States Government & Politics

SS 715P

Grade Level: 12  
One Semester - 0.5 credit



This is an academically rigorous course that meets the United States Government graduation requirement. This course meets the same course content goals and objectives as United States Government at an accelerated pace and to meet requirements established by College Board.

### AP United States History

SS 515 AP/BP

Grade Level: 11, 12  
Two Semesters - 1.0 credit



This is an academically rigorous course that meets the United States History graduation requirement. This course provides a chronological narrative survey of American history from the pre-colonial period to the present.

### Business Economics

SS 612P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Business Economics integrates economic principles of free market economy, consumerism, and the role of American government within the economic system with entrepreneurship/business concepts (such as marketing principles, business law, and risk). Student will learn basic macroeconomic and microeconomic theory, fiscal and monetary policies, the role and significance of international economics and government trade and regulatory policies.

### Business Law

BU 540P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This course identifies and promotes the skills needed in law and law associated professions. Topics include the origins, ethics, structures, and institutions of law. It concentrates on several types of law including criminal, civil, consumer, contract, property, agency, employment, family and environmental law. Throughout the course, students will use case studies to examine and evaluate ethics, rights, and responsibilities in business law.

### Career Connections

HE 476P

Grade Level: 12  
One Semester - 0.5 credit

Prerequisite: 1.0 credit within one of the following pathways: Family, Community, Consumer Services; Fashion, Apparel, Interior Design (FAID); or Restaurant & Event Management.

Career Connections provides human services/family and consumer sciences related work-based learning experiences (paid or unpaid) outside the traditional classroom. Learning goals are set by the student, teacher and employer/adult mentor to create field experiences and/or discussions related to human services/ family and consumer sciences occupational technical skills. **Guided Enrollment Note: Enrollment requires approval by FCS instructor.**

### Civic Leadership Work Experience

SS 490 AP/BP

Grade Level: 12  
One Semester - 1.0 credit

Prerequisite: Government and Public Relations Applications II OR Legal Proceedings Applications

This course applies the skills needed in government and public administration professions through the application of leadership and teamwork within the classroom or as an intern at a work location. Topics may include working with budgets, negotiation/communication with co-workers, developing proposals, making oral presentations and making informed decisions to meet an identified need. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Civic Leadership Academy. Open to Civic Leadership Academy students who are meeting academy expectations**

21

### Government and Public Relations Applications I & II

SS 484P

SS 485P

Grade Level: 11  
Two Semesters - 1.0 credit

Prerequisite: Public Administration Fundamentals

This course will build skills needed to communicate messages for community change through various organizations. Topics will include conflict awareness, reliability of sources, creating publicity materials, public relations campaigns and working with the media. Students will explore the role of public relations in society, business, and government. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Civic Leadership Academy and is a required course in the Public Administration strand.**

21

### Introduction to Civic Leadership

SS 480P

Grade Level: 9  
One Semester - 0.5 credit

This course will introduce students to the knowledge and skills of serving the general public in a variety of occupations. Topics include identifying personal strengths and weaknesses, setting career goals, leadership skills, team-building and problem solving. In addition, students will analyze leadership roles and identify leadership opportunities in the school and community. Students will explore career opportunities in legal studies and public administration in both government and non-government organizations. Students will meet and learn from professionals in related career fields and have the opportunity to visit a variety of local government agencies and law-related venues. Students will learn fundamental concepts in legal studies and government and public administration. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Civic Leadership Academy.**

21

### Legal Proceedings Applications

SS XXX AP/  
BP

Grade Level: 11  
Two Semesters - 1.0 credit

Prerequisite: Practical Law Fundamentals

The focus of this course is criminal law. Students will examine the connection between the Constitution and the courts - how laws are created, enforced, interpreted and changed. The course enables students to examine diverse areas of law, including criminal, civil, constitutional and international. Topics include the mental and physical elements of criminal offenses, categories of crimes, and criminal responsibility and defenses, civil rights issues and the role of advocacy, civics and the media in our legal system. Case studies, simulations, integration of technology, and guest speakers will be an integral part of this course. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Civic Leadership Academy and is a required course in the Legal strand.**

21

### Lifespan Development

HE 413P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Life Span Development prepares students for occupations associated with meeting the needs of people by learning about physical, intellectual, emotional and social development from childhood to death. In addition, this course helps students discover how individuals respond to the various stages of the life span with a strong tie to teen years, adulthood and later years.

### Practical Law Fundamentals

SS 486P

Grade Level: 10

One Semester- 0.5 credit--To be taken 1st semester

Prerequisite: Introduction to Civic Leadership

21

In this course, students will examine the basic legal structures and functions of government including the court system and processes to develop problem-solving skills in our legal society. Students will be introduced to an overview of law, including criminal law, contract law, family law, business and employment law, juvenile law, and immigration law. Case studies, simulations, integration of technology, and guest speakers will be an integral part of this course. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Civic Leadership Academy and is a required course in the Legal strand.**

### Public Administration Fundamentals

SS 482P

Grade Level: 10

One Semester - 0.5 credit--To be taken 2nd semester

Prerequisite: Introduction to Civic Leadership

21

In this course, students will be introduced to the fundamentals of public administration and public policy. They will investigate the process of formulating public policy and how it impacts decision making. Students will examine a variety of different policy issues through case studies and interviews with local government agencies. Students will evaluate how public and private agencies meet the needs of their communities. Case studies, simulations, integration of technology, and guest speakers will be an integral part of this course. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Civic Leadership Academy and is a required course in the Public Administration strand.**

### United States Government

SS 710P

Grade Level: 12

One Semester - 0.5 credit



This course examines the origins, development, organizations, power, and actual working of American government and emphasizes the change and developments in recent years, and emphasizes the impact and effects on the student's daily lives.

### United States History

SS 510 AP/BP

Grade Level: 11, 12

Two Semesters - 1.0 credit



This course provides a chronological and/or thematic study of American history from the late nineteenth century to the present.

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	eLearning available	21st Century Academy only	GRADUATION REQUIREMENT	Applied Communication	Fine Art	Practical & Consumer	Technology
		9	10	11	12									
CP 455P	Graphic Design I	•	•	•	•	0.5	T			✓	✓		✓	
CP 458P	Graphic Design II	•	•	•	•	0.5	T			✓	✓		✓	
LA 470 AP/BP	Photojournalism	•	•	•	•	1.0	T			✓		✓	✓	
<b>Design Academy Courses</b>														
AR 406P	Introduction to Design II	•				0.5	I		21		✓		✓	
<b>e-Communication Academy Courses</b>														
CP 400 AP/BP	Foundations of e-Communication	•				1.0	T		21	✓	✓	✓	✓	
CP 459P	Graphic Design III			•	•	0.5	T		21	✓	✓		✓	
CP 465P	Graphic Design IV			•	•	0.5	T		21	✓	✓		✓	
CP 715 AP/BP	e-Communication Senior Capstone I & II-Graphic Design				•	2.0	A		21	✓	✓	✓	✓	

Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.

### e-Communication Senior Capstone I & II-Graphic Design CP 715 AP/BP

Grade Level: 12  
Two Semesters - 2.0 credit



This course is a culmination of the 4-year academy plan of study and involves a work-based learning experience (WBL). The course synthesizes a student's academy learning and helps students further define their post-secondary plans. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the e-Communication Academy. Open to e-Communication Academy students who are meeting academy expectations.**

### Foundations of e-Communication CP 400 AP/BP

Grade Level: 9  
Two Semesters - 1.0 credit



This course provides students with the opportunity to explore the communication process to produce visual imagery and to apply graphic techniques to various fields including advertising, animation, TV/video, and web. Topics include analyzing the design elements and principles, exploring industry tools, software, and equipment and learning composition techniques to develop a quality product. This course is hard-hitting and production oriented, simulating the real work environment of the communication industry. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the e-Communication Academy.**

### Graphic Design I CP 455P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Students will develop knowledge in commercial graphic design as a form of visual and artistic communication while learning to effectively communicate ideas and information to business and customer audiences via illustration and other forms of digital or printed media. Students will learn design elements and principles, concept design, layout and develop technical skills needed to produce a variety of publications. In addition, students will discover a wide range of career possibilities available to a graphic designer. Students will begin to develop a portfolio of work. **Guided enrollment Note: This course is offered at all high schools with open enrollment and is a required course for students pursuing the Graphic Design Strand of the 21st Century e-Communication Academy.**

### Graphic Design II CP 458P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Graphic Design I

Students will advance their knowledge and skills of graphic design, illustration and image manipulation. Students will acquire knowledge of page layout, create digital illustrations to effectively communicate ideas and information to business and customer audiences. Course topics include the ways in which visual messages are used in society, the skills needed by a graphic designer and the potential areas of specialization and employment. Students will continue to build a portfolio of work. **Guided enrollment Note: This course is offered at all high schools with open enrollment and is a required course for students pursuing the Graphic Design Strand of the 21st Century e-Communication Academy.**

### Graphic Design III

CP 459P

Grade Level: 11, 12

One Semester - 0.5 credit

Prerequisite: Graphic Design II

21

Students expand their knowledge through accelerated learning in graphic design as a means of visual communication, exploring a variety of media, tools and software used by design and interactive media companies worldwide to communicate ideas visually. Students apply design and illustration principles, and develop the technical foundation needed to excel in future courses and in client work. In addition, students explore a wide range of careers in graphic design, illustration, fine arts, apparel/textile design, industrial design, web design, social design, and User Interface (UI)/User Experience (UX) design. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the e-Communication Academy.**

### Graphic Design IV

CP 465P

Grade Level: 11, 12

One Semester - 0.5 credit

Prerequisite: Graphic Design III

21

Students expand their knowledge through accelerated learning in graphic design as a means of visual communication, exploring a variety of industry tools, software, and equipment used by design and interactive media companies worldwide. Students analyze and apply design elements and principles and learn composition techniques to develop and design a quality product, and to excel in future courses and in client work. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the e-Communication Academy.**

### Introduction to Design II

AR 406P

Grade Level: 9

One Semester - 0.5 credit

21

This exploratory course examines a variety of aspects that encompass the designed environment in which we work, live and play. Students will observe skills designers use to create the products and places people interact with daily. This class includes an overview of the design process, observational drawing, introduction to CAD, and various other graphic communication methods and technology. Students survey various design fields and create fundamental projects that incorporate many design careers. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Design Academy.**

### Photojournalism

LA 470 AP/BP

Grade Level: 9, 10, 11, 12

Two Semesters - 1.0 credit

The primary focus of this class is to provide instruction and opportunities for the student wanting to develop photography skills and/or to pursue journalism via photography. The products from this class will be published in the school newspaper, the newspaper's and school's webpages, and the school yearbook. Competition opportunities will also be available. **Guided Enrollment Note: Out-of-class time is required at after school events.**



Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	21st Century Academy only	OATC Program	College Now	NCAA Approved	Weighted Grade	GRADUATION REQUIREMENT	Practical & Consumer	Science -Life	Science-Physical
		9	10	11	12											
SC 410 AP/BP	Biology	•	•	•	•	1.0	I				✓			✓		
SC 610 AP/BP	Chemistry		•	•	•	1.0	I				✓				✓	
SC 530 AP/BP	Anatomy & Physiology			•	•	1.0	T				✓			✓		
SC 515 AP/BP	AP Biology			•	•	1.0	T		✓	✓	▲			✓		
HE 615P	Nutrition & Wellness	•	•	•	•	0.5	T						✓			
<b>OATC Healthcare Science Year 1 Courses</b>																
SC 501P	Introduction to Healthcare			•	•	0.5	I		◆	✓			✓	✓		
SC 504P	Medical Terminology			•	•	0.5	T		◆	✓			✓			
VE 542P	Healthcare Research & Clinical Skills			•	•	0.5	T		◆				✓			
SC 506P	Certified Nurse Assistant-CNA			•	•	1.0	A		◆	✓			✓	✓		
<b>OATC Healthcare Science Year 2 Courses</b>																
VE 525P	Phlebotomy Technician				•	0.5	A		◆				✓			
VE 530P	Pharmacy Technician				•	1.0	A		◆				✓			
VE 535P	Home Health Aide-HHA				•	0.5	A		◆	✓			✓			
VE 542P	Healthcare Research & Clinical Skills			•	•	0.5	T		◆				✓			
VE 555P	Healthcare Workplace Experience				•	1.0	A		◆				✓			
<b>OATC Emergency Medical Services Courses</b>																
VE 541P	Basic Life Support for Healthcare Providers				•	0.5	T		◆	✓			✓			
VE 545P	Fundamentals of EMS				•	0.5	T		◆				✓			
VE 550P	Emergency Medical Services (EMS)				•	1.0	T		◆				✓			
VE 542P	Healthcare Research & Clinical Skills			•	•	0.5	T		◆				✓			
SC 504P	Medical Terminology			•	•	0.5	T		◆	✓			✓			
<b>Sports Medicine &amp; Exercise Science Academy Courses</b>																
HS 400 AP/BP	Care of Athletes		•	•		1.0	T	21					✓			
HS 420 AP/BP	Sports Medicine I	•	•			1.0	T	21					✓			
SC 460 AP/BP	Sports Medicine II			•	•	1.0	A	21					✓	✓		
HS 440 AP/BP	Sports Medicine Senior Capstone				•	1.0	T	21					✓			
HS 441P	Sports Medicine Senior Capstone-BLOCK				•	1.0	A	21					✓			

Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.

### Anatomy & Physiology

SC 530 AP/BP



Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Biology

This class is designed for the college-bound student who is considering a career in a professional medical field. The course offers an in-depth study of higher vertebrate anatomy using human models and diagrams. Insight into the functions of human systems is gained through laboratory study of living tissues, dissection and physiology instrumentation. **Guided Enrollment Note: Concurrent or previous enrollment in Chemistry recommended.**

### AP Biology

SC 515 AP/BP



Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Chemistry

This course is designed to be the equivalent of a college introductory biology course. Students in this course will build a conceptual framework, the factual knowledge and analytical skills to deal critically with the rapidly changing science of biology and to appreciate science as a process.

# HEALTH SCIENCE

## CAREER PATHWAYS COURSES

### Basic Life Support for Healthcare Providers

VE 541P

Grade Level: 12  
One Semester - 0.5 credit  
Prerequisite: Medical Terminology



This technical level course will instruct students in the requirements and skills to obtain national certifications for First Aid, CPR and Emergency Medical Responder. **Guided enrollment note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Emergency Medical Specialties (EMS) program.**

### Biology

SC 410 AP/BP

Grade Level: 9, 10, 11, 12  
Two Semesters - 1.0 credit



Biology is a lab-oriented course where inquiry problem-solving skills are practiced and refined. The emphasis of the course is on the molecular level, with such topics as biochemistry, genetics and cellular processes. The diversity and evolution of organisms and ecology concepts are included throughout the curriculum

### Care of Athletes

HS 400 AP/  
BP

Grade Level: 10, 11  
Two Semesters - 1.0 credit  
Prerequisite: Sports Medicine I



Students will learn therapeutic tasks that would be designated by a certified athletic trainer or fitness specialist. Topics covered will include an overview of the athletic medicine team, basic legal and ethical considerations in athletic medicine, return-to-play protocols, use of therapeutic modalities, coordination of training room functions, basic patient assessment, and rehabilitation as it relates to an athletic population. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Sports Medicine and Exercise Science Academy. Instructor permission required.**

### Certified Nurse Assistant-CNA

SC 506P

Grade Level: 11, 12  
One Semester (2-hour block)- 1.0 credit  
Prerequisite: Biology; prior or concurrent enrollment in Anatomy and Physiology



This course provides classroom clinical instruction for the primary care of clients in long-term and acute-care facilities. Students learn skills for daily hygiene, bedside care, vital sign measurement, positioning and safe transfer of clients. The class prepares and schedules the student to take the Kansas CNA examination. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Healthcare Science Program.**

### Chemistry

SC 610 AP/BP

Grade Level: 10, 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: Biology



Chemistry is the study of properties and changes in matter. This study includes the particles that compose matter and how elements and compounds interact. Conceptual understanding is built through visualization, laboratory observation and mathematical representation. **Guided Enrollment Note: Concurrent enrollment in Geometry or higher math is recommended.**

### Emergency Medical Services (EMS)

VE 550P

Grade Level: 12  
One Semester - 1.0 credit



This course is designed to provide training in emergency medical care for those who are apt to be the first persons responding to an emergency incident. The student will receive both didactic and psychomotor skills training in CPR, patient assessment, fracture management, airway management and trauma management. Successful completion of this course with a minimum grade of "C" will enable the student to sit for the First Responder certification exam administered by the Kansas Board of Emergency Medical Services. The First Responder course meets the standards for Emergency Medical Responder (EMR) training and testing. **Guided Enrollment Note: This course is offered for college credit through partnership with JCCC and is offered only at OATC as part of the Emergency Medical Specialties strand.**

### Fundamentals of EMS

VE 545P

Grade Level: 12  
One Semester - 0.5 credit



This course places a special emphasis on the knowledge and skills needed in medical emergencies. Topics typically include clearing airway obstructions, controlling bleeding, bandaging, methods for lifting and transporting injured persons, simple spinal immobilization, infection control, stabilizing fractures, and responding to cardiac arrest. The courses also may cover the legal and ethical responsibilities involved in dealing with medical emergencies. **Guided Enrollment Note: This course is offered at OATC as part of the Emergency Medical Specialties strand.**

### Healthcare Research & Clinical Skills

VE 542P

Grade Level: 11, 12  
One Semester - 0.5 credit  
Prerequisite: Medical Terminology



This course will provide students with an in-depth look into the healthcare and emergency medical specialties career fields. Students will explore through collaboration, observation, and participation in approved activities with local and regional health care professionals to provide hands-on experience. **Guided enrollment note: This course is offered at Olathe Advanced Technical Center (OATC) .**

### Healthcare Workplace Experience

VE 555P

Grade Level: 12  
One Semester (2-hour block during either semester) - 1.0 credit



Students will have the opportunity to experience a Health Science career working alongside industry professionals in a variety of settings. Goals are typically set cooperatively by the student, parents, teacher and employer. The work experience may be paid or unpaid. **Guided enrollment note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Healthcare Science Program.**

### Home Health Aide-HHA

VE 535P

Grade Level: 12  
 One Semester - 0.5 credit  
 Prerequisite: Certified Nurse Assistant-CNA



This course will teach students how to care for individuals within their homes. Course content will include patient care, comfort, and safety; anatomy and physiology; the prevention of disease and infection; nutrition and meal preparation; human relations; and first aid and CPR. Additional topics will include therapy strategies, household management and employability. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Healthcare Science Program.**

### Introduction to Healthcare

SC 501P

Grade Level: 11, 12  
 One Semester (1st sem)- 0.5 credit  
 Prerequisite: Biology or concurrent enrollment



This course is an introduction to the health care delivery system with an overview of health careers and the roles and responsibilities of members of the health care team. Emphasis will be on how to work within a health care team, effective communication skills, professional safety and workplace skills, and legal and ethical rights and responsibilities of patients and health care workers. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Healthcare Science Program.**

### Medical Terminology

SC 504P

Grade Level: 11, 12  
 One Semester (1st sem)- 0.5 credit  
 Healthcare Science I AND Emergency Medical Specialties (EMS) programs



This course will introduce students to systematically identify medical terms by analyzing their components. The course will emphasize defining medical prefixes, root words, suffixes, and abbreviations as well as an introduction to basic medical math. The primary focus is on developing both oral and written skills in the language used to communicate within health care professions. This course is designed for the student who is interested in any facet of the healthcare industry. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Healthcare Science Program.**

### Nutrition & Wellness

HE 615P

Grade Level: 9, 10, 11, 12  
 One Semester - 0.5 credit

Nutrition & Wellness will prepare students to explore different components of wellness which include physical, social, and emotional health. Students will prepare for careers in nutrition and wellness by taking an in-depth look at various types of diets, nutrition information, disease prevention, and physical activity to identify and apply healthy practices for a lifetime of wellness.

### Pharmacy Technician

VE 530P

Grade Level: 12  
 One Semester (2-hour block)- 1.0 credit



This course will help students learn the information needed to start a career as a Pharmacy Technician. Course content will include an understanding of the role the pharmacy profession, pharmacy procedures and safety, drug interactions and reactions, an overview of various drug categories, pharmacy law and ethical responsibilities, and a pharmacy technician practicum. These standards will prepare the student for a technical assessment directly aligned to the standards. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Healthcare Science Program.**

### Phlebotomy Technician

VE 525P

Grade Level: 12  
 One Semester - 0.5 credit



Students will acquire knowledge, skills, and experiences related to the drawing of blood and learn about infection control, sterilization practices, medical/hospital procedures and environments, diagnostic procedures, and the process of drawing blood. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Healthcare Science Program.**

### Sports Medicine I

HS 420 AP/BP

Grade Level: 9, 10  
 Two Semesters - 1.0 credit

21

This course is designed to teach students components of exercise science/sports medicine; including exploration of therapeutic careers, medical terminology, anatomy and physiology, first aid, injury prevention principles, the healing process, rehabilitation techniques, therapeutic modalities, sport nutrition, sport psychology, and performance enhancement philosophies. Students will acquire certification in CPR/AED and First Aid from the American Health Association. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Sports Medicine and Exercise Science Academy.**

### Sports Medicine II

SC 460 AP/BP

Grade Level: 11, 12  
 Two Semesters - 1.0 credit  
 Prerequisite: Care of Athletes

21

This course provides students with instruction in advanced techniques and processes for sports medicine through hands-on experience evaluating injuries commonly sustained by the competitive athlete. Emphasis will be placed on evaluating and assessing athletic injuries. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment and be prepared for postsecondary education. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Sports Medicine and Exercise Science Academy. Concurrent enrollment in Anatomy & Physiology is recommended.**

### Sports Medicine Senior Capstone

HS 440 AP/  
BP

Grade Level: 12

Two Semesters - 1.0 credit

Prerequisite: Sports Medicine II and Anatomy & Physiology

21

This course is a culmination of the 4-year academy plan of study and involves a student Work-Based Learning Experience and/or the opportunity to do a research project in Exercise Science. This class synthesizes a student's academy learning and helps students further define their post-secondary plans. **Guided Enrollment Note: This course is offered only at Olathe North High School as part of the Sports Medicine and Exercise Science Academy. This course is either a one-hour/two-semester course or a two-hour/one-semester course depending on a student's schedule. Open to Sports Medicine and Exercise Science Academy students who are meeting academy expectations.**

### Sports Medicine Senior Capstone-BLOCK

HS 441P

Grade Level: 12

Two Semesters - 1.0 credit

Prerequisite: Sports Medicine II and Anatomy & Physiology

21

This course is a culmination of the 4-year academy plan of study and involves an in-depth look at a specific topic, area of research, occupation/career, technique or skill in Sports Medicine. This class synthesizes a student's academy learning and helps students further define their post-secondary plans. Students may further explore careers in Sports Medicine by collaborating, observing, and participating in an approved Work-Based Learning Experience (WBL) with local and regional health care professionals. **Guided Enrollment Note: This course is offered at Olathe North High School as part of the Sports Medicine and Exercise Science Academy. Individual transportation required to off-site shadowing and internship locations. Open to Sports Medicine and Exercise Science Academy students who are meeting academy expectations.**

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	OATC Program	College Now	GRADUATION REQUIREMENT	Practical & Consumer	Technology
		9	10	11	12							
IT 405P	Introduction to Technology Education	•	•			0.5	I				✓	✓
IT 411P	Engineering Drafting/CAD I	•	•	•	•	0.5	T				✓	✓
IT 420P	Engineering Drafting/CAD II	•	•	•	•	0.5	T				✓	✓
<b>OATC Welding Technology Courses Year 1</b>												
VE 439P	Production Print Reading			•	•	0.5	I	◆			✓	
VE 710P	Hand & Power Tools			•	•	0.5	T	◆			✓	✓
VE 463P	Welding Processes I			•	•	1.0	T	◆	✓		✓	✓
VE 470P	Welding Processes II			•	•	1.0	A	◆			✓	✓
<b>OATC Welding Technology Courses Year 2</b>												
VE 466P	Production Methods I				•	1.0	T	◆	✓	✓	✓	
VE 451P	Production Print Reading II				•	0.5	A	◆		✓		
VE 675P VE 472P	Work Experience in Welding I & II				•	1.5	A	◆		✓		

Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.

**Engineering Drafting/CAD I** IT 411P

Grade Level: 9, 10, 11, 12  
 One Semester - 0.5 credit

This course will help students learn to utilize CAD software as a design tool for engineering, as well as fundamentals of manual orthographic drawings. Several forms of graphic and electronic communication are explored. Students are exposed to graphic design, problem-solving, research and design, and model construction. This class introduces students to 3D computer generated modeling and design.

**Engineering Drafting/CAD II** IT 420P

Grade Level: 9, 10, 11, 12  
 One Semester - 0.5 credit  
 Prerequisite: Engineering Drafting/CAD I

This drawing course will focus on communication skills used by professionals in various fields of engineering. 3D computer generated modeling and design is the primary technical skill applied in this class. Students are presented with problem-solving situations involving the various types of communication systems. This course is recommended for any student interested in a career in one of the many related fields of Engineering or CAD technology.

**Hand & Power Tools** VE 710P

Grade Level: 11, 12  
 One Semester - 0.5 credit

This course provides technical knowledge used in Aviation and Manufacturing area related to hand and power tools. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Avionics & Electronics Technology program.**



**Introduction to Technology Education** IT 405P

Grade Level: 9, 10  
 One Semester - 0.5 credit

This introductory level, technology-based class will introduce students to Engineering Design, Architectural Design and Production/Manufacturing Technology. Students will learn fundamentals of manufacturing and construction technology, create computer-aided drawings, production of prototypes, as well as research historical and future technology issues.

**Production Methods I** VE 466P

Grade Level: 12  
 Two Semesters - 1.0 credit

A comprehensive, technical level course designed to instruct students in the knowledge and skills common to manufacturing occupations using a variety of materials with an emphasis on metals. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC).**



**Production Print Reading** VE 439P

Grade Level: 11, 12  
 One Semester - 0.5 credit

This introductory level course will explain the fundamentals of interpreting (reading) architectural drawings. Students will learn how to understand plan and elevation views, sections, details, schedules, specifications, symbols and abbreviations found on most residential and commercial construction drawings. **Guided enrollment note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Construction Trades program.**



# MANUFACTURING & PRODUCTION

## CAREER PATHWAYS COURSES

### Production Print Reading II

VE 451P

Grade Level: 12  
One Semester - 0.5 credit



This course is designed to develop advanced skills and knowledge needed to interpret drawings related to manufacturing and maintenance occupations. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC).**

### Welding Processes I

VE 463P

Grade Level: 11, 12  
Two Semesters - 1.0 credit



This course is designed to instruct students in basic welding. Students will be exposed to the various welding processes and techniques. Tools, equipment, and safety related to metal fabrication will be discussed and used by the student in this hands-on course. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) .**

### Welding Processes II

VE 470P

Grade Level: 11, 12  
One Semester - 1.0 credit



This advanced, application-level courses builds on skills learned in Welding Processes I and provides opportunities for applying welding skills. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) .**

### Work Experience in Welding I & II

VE 675P

VE 472P

Grade Level: 12  
One Semester - 1.5 credit



This course incorporates experienced-based learning including IHT or Internships supported by classroom attendance and discussion, within their area of interest/study. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC).**

# MARKETING

## CAREER PATHWAYS COURSES

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	21st Century Academy only	GRADUATION REQUIREMENT					
		9	10	11	12				Applied Communication	Fine Arts	Social Studies	Practical & Consumer	Technology	
BU 500P	Business Essentials	•	•			0.5	I						✓	
BU 560P	Accounting I	•	•	•	•	0.5	T						✓	
BU 565P	Accounting II	•	•	•	•	0.5	T						✓	✓
BU 620P	Business Communications		•	•	•	0.5	T						✓	
SS 612P	Business Economics	•	•	•	•	0.5	T				✓	✓		
BU 660P	Business Management			•	•	0.5	T						✓	
CP 455P	Graphic Design I	•	•	•	•	0.5	T		✓	✓				✓
CP 458P	Graphic Design II	•	•	•	•	0.5	T		✓	✓				✓
BU 520P	Entrepreneurship		•	•	•	0.5	T						✓	
BU 547P	Principles of Marketing and Brand Management	•	•	•	•	0.5	T						✓	
BU 546P	Principles of Marketing and Selling	•	•	•	•	0.5	T						✓	
CP 553P	Web Design I	•	•	•	•	0.5	T		✓				✓	✓
CP 554P	Web Design II	•	•	•	•	0.5	T		✓				✓	✓
BU 531 AP/BP	Marketing Applications			•	•	1.0	A						✓	
<b>e-Communication Academy Courses</b>														
CP 400 AP/BP	Foundations of e-Communication	•				1.0	T	21	✓	✓			✓	✓

Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.

### Accounting I BU 560P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Accounting is the language of business and will be required of anyone attending a business school or pursuing a major or minor in business in college. This course is the first in a sequence of three courses providing a foundation which supports both college-level coursework and personal financial experiences.

### Accounting II BU 565P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Accounting I

Accounting II reviews the basic concepts learned in the first semester and expands into areas of payroll, special journals, cash register systems, uncollectible accounts, and depreciation. Computers are utilized in the course to reinforce accounting cycle knowledge and give students a realistic view of how many businesses perform accounting tasks.

### Business Communications BU 620P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit

This course will help students to develop an understanding and appreciation for effective communication in business situations and environments. Emphasis is placed on all phases of communication: speaking, listening, thinking, responding, reading, writing, communicating non-verbally, and utilizing technology for communication. Business communication functions, processes, and applications in the context of business may be practiced through problem-based projects and real-world applications.

### Business Economics SS 612P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Business Economics integrates economic principles of free market economy, consumerism, and the role of American government within the economic system with entrepreneurship/business concepts (such as marketing principles, business law, and risk). Student will learn basic macroeconomic and microeconomic theory, fiscal and monetary policies, the role and significance of international economics and government trade and regulatory policies.

# MARKETING

## CAREER PATHWAYS COURSES

### Business Essentials

BU 500P

Grade Level: 9, 10  
One Semester - 0.5 credit

This course is designed for the student who seeks an introduction to business, marketing, and management. Students will develop the skills necessary to succeed in the business environment by studying forms of business ownership, functions of management, budgeting and finance, accounting, business communications, law, marketing, and economics. This course is appropriate for any student interested in Entrepreneurship and owning their own business.

### Business Management

BU 660P

Grade Level: 11, 12  
One Semester - 0.5 credit

Prerequisite: 0.5 credit Business course within Marketing Pathway or Business Management & Entrepreneurship Pathway

This course will acquaint students with management opportunities and effective human relations providing students with the skills to perform planning, staffing, financing, and controlling functions within a business. Students will be exposed to macro-level study of the business world, including business structure and finance, and the interconnections among industry, government, and the global economy. The course will emphasize problem-based, real-world applications of business concepts and use accounting concepts to formulate, analyze, and evaluate business decisions.

### Entrepreneurship

BU 520P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit

This course is designed to teach the student the basic principles and practices of owning a business. Students will learn about planning, organizing, controlling, problem-solving, and decision-making as it relates to owning a small business. Students will explore the free enterprise system through a combination of case studies, group work and speakers.

### Foundations of e-Communication

CP 400 AP/BP

Grade Level: 9  
Two Semesters - 1.0 credit

This course provides students with the opportunity to explore the communication process to produce visual imagery and to apply graphic techniques to various fields including advertising, animation, TV/video, and web. Topics include analyzing the design elements and principles, exploring industry tools, software, and equipment and learning composition techniques to develop a quality product. This course is hard-hitting and production oriented, simulating the real work environment of the communication industry. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the e-Communication Academy.**

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### Graphic Design I

CP 455P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Students will develop knowledge in commercial graphic design as a form of visual and artistic communication while learning to effectively communicate ideas and information to business and customer audiences via illustration and other forms of digital or printed media. Students will learn design elements and principles, concept design, layout and develop technical skills needed to produce a variety of publications. In addition, students will discover a wide range of career possibilities available to a graphic designer. Students will begin to develop a portfolio of work. **Guided enrollment Note: This course is offered at all high schools with open enrollment and is a required course for students pursuing the Graphic Design Strand of the 21st Century e-Communication Academy.**

### Graphic Design II

CP 458P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Graphic Design I

Students will advance their knowledge and skills of graphic design, illustration and image manipulation. Students will acquire knowledge of page layout, create digital illustrations to effectively communicate ideas and information to business and customer audiences. Course topics include the ways in which visual messages are used in society, the skills needed by a graphic designer and the potential areas of specialization and employment. Students will continue to build a portfolio of work. **Guided enrollment Note: This course is offered at all high schools with open enrollment and is a required course for students pursuing the Graphic Design Strand of the 21st Century e-Communication Academy.**

### Marketing Applications

BU 531 AP/BP

Grade Level: 11, 12  
Two Semesters - 1.0 credit  
Prerequisite: 1.0 credit of any Technical Level Marketing Pathway course(s).

This course furthers student understanding and skills in the various marketing functions. Students coordinate management activities, discuss the nature of marketing plans, generate product ideas, coordinate activities in promotional mix, and demonstrate specialized sales processes and techniques. Economic and financial concepts are also stressed throughout the course. Students will engage in hands-on, real-world activities through a variety of Project Based Learning and may have the opportunity for an in-house training by managing and running the school store.

### Principles of Marketing and Brand Management

BU 547P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This class offers students insight into the field of marketing and branding decisions. Students will be introduced to promotional and branding strategies as well as learning pricing, distribution and marketing research through project-based learning.



### Principles of Marketing and Selling

BU 546P

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

This class offers students insight into the selling processes affecting the marketing of goods and services from the producer to the consumer. Project based learning provides the students with authentic learning opportunities.

### Web Design I

CP 553P

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

A foundation of web design will be gained by learning HTML and CSS, the standard web languages. Also, students will learn how to make digital graphics. Students will incorporate all these, in addition to some basic JavaScript, to create website projects. They will have the opportunity to present their websites on the internet. **Guided enrollment Note:** *This course is offered at all high schools with open enrollment and is a required course for students pursuing the Web Design Strand of the 21st Century e-Communication Academy.*

### Web Design II

CP 554P

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

Prerequisite: Web Design I

Students will continue the development of their web designing skills by using industry-standard web development software. Students will learn to use good navigation design and ease-of-use principles while developing projects for the web. Graphic design skills as they relate to the web will also be studied. Websites will be created incorporating all the skills learned in this course. **Guided enrollment Note:** *This course is offered at all high schools with open enrollment and is a required course for students pursuing the Web Design Strand of the 21st Century e-Communication Academy.*

# MOBILE EQUIPMENT MAINTENANCE

## CAREER PATHWAYS COURSES

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	OATC Program	College Now	GRADUATION REQUIREMENT	Practical & Consumer	Technology
		9	10	11	12							
IT 405P	Introduction to Technology Education	•	•			0.5	I			✓	✓	
BU 500P	Business Essentials	•	•			0.5	I			✓		
BU 520P	Entrepreneurship		•	•	•	0.5	T			✓		
<b>OATC Auto Technology-Chassis Courses</b>												
VE 601P	Steering & Suspension I			•	•	0.5	T	◆	✓	✓	✓	
VE 602P	Steering & Suspension II			•	•	0.5	A	◆	✓	✓	✓	
VE 603P	Brakes I			•	•	0.5	T	◆	✓	✓	✓	
VE 604P	Brakes II			•	•	0.5	A	◆	✓	✓	✓	
VE 613P	Alternative Power			•	•	0.5	T	◆	✓	✓	✓	
VE 614P	Drive Train Technology			•	•	0.5	T	◆	✓	✓	✓	
<b>OATC Auto Technology-Performance Courses</b>												
VE 615P	Electronic & Electrical Systems I			•	•	1.0	T	◆	✓	✓	✓	
VE 617P	Electronic & Electrical Systems II			•	•	1.0	A	◆	✓	✓	✓	
VE 622P	Mobile HVAC			•	•	0.5	T	◆	✓	✓	✓	
VE 600P	Engine Mechanical Repair			•	•	0.5	T	◆	✓	✓	✓	
VE 623P VE 630P	Work Experience in Transportation I & II				•	1.5	A	◆		✓	✓	
Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.												

### Alternative Power

VE 613P

Grade Level: 11, 12  
One Semester - 0.5 credit



Alternative Power is a Technical level course and part of a series of courses taken concurrently which make up Auto Technology I. The course is designed to provide students with basic theories and information needed to develop an understanding of alternative power vehicles. This comprehensive course is NATEF approved. Students will be involved in leadership and employability skills through SkillsUSA including local, state and national competitions. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Auto Technology program.**

### Brakes I

VE 603P

Grade Level: 11, 12  
One Semester - 0.5 credit



Brakes I is a Technical level course and part of a series of courses taken concurrently which make up Auto Technology I. The course is designed to provide students with the basic theories, equipment, and skills needed to inspect and service braking systems. This comprehensive course is NATEF approved. Students will be involved in leadership and employability skills through SkillsUSA including local, state and national competitions. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Auto Technology program.**

### Brakes II

VE 604P

Grade Level: 11, 12  
One Semester - 0.5 credit



Advanced Brakes is an application level course and part of a series of courses taken concurrently which make up Auto Technology I. The course is designed to provide students with the advanced skills needed to inspect, service and repair braking systems to industry standards. This comprehensive course is NATEF approved. Students will be involved in leadership and employability skills through SkillsUSA including local, state and national competitions. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Auto Technology program.**

### Business Essentials

BU 500P

Grade Level: 9, 10  
One Semester - 0.5 credit

This course is designed for the student who seeks an introduction to business, marketing, and management. Students will develop the skills necessary to succeed in the business environment by studying forms of business ownership, functions of management, budgeting and finance, accounting, business communications, law, marketing, and economics. This course is appropriate for any student interested in Entrepreneurship and owning their own business.

### Drive Train Technology

VE 614P

Grade Level: 11, 12  
One Semester - 0.5 credit



Drive Train Technology is a Technical level course and part of a series of courses taken concurrently which make up Auto Technology I. The course is designed to provide students with the basic theories and skills needed to inspect and service drive train components. This comprehensive course is NATEF approved. Students will be involved in leadership and employability skills through SkillsUSA including local, state and national competitions. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Auto Technology program.**

### Engine Mechanical Repair

VE 600P

Grade Level: 11, 12  
One Semester - 0.5 credit  
Prerequisite: Auto Technology I courses



Engine Mechanical Repair is a Technical level course and part of a series of courses taken concurrently which make up Auto Technology II. This course covers the tools, skills, and techniques required to perform base engine mechanical repair and testing. This includes engine removal, installation, and maintenance. This comprehensive course is NATEF approved. Students will be involved in leadership and employability skills through SkillsUSA including local, state and national competitions. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Auto Technology program.**

### Entrepreneurship

BU 520P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit

This course is designed to teach the student the basic principles and practices of owning a business. Students will learn about planning, organizing, controlling, problem-solving, and decision-making as it relates to owning a small business. Students will explore the free enterprise system through a combination of case studies, group work and speakers.

### Electronic & Electrical Systems I

VE 615P

Grade Level: 11, 12  
One Semester - 0.5 credit  
Prerequisite: Auto Technology I courses



Electronic/Electrical Systems I & II is a Technical level course and part of a series of courses taken concurrently which make up Auto Technology II. The course is designed to provide students with the basic theories, equipment, and skills needed to inspect and service electrical systems. This comprehensive course is NATEF approved. Students will be involved in leadership and employability skills through SkillsUSA including local, state and national competitions. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Auto Technology program.**

### Electronic & Electrical Systems II

VE 617P

Grade Level: 11, 12  
One Semester - 0.5 credit  
Prerequisite: Auto Technology I courses



Advanced Electronic/Electrical Systems is an Application level course and part of a series of courses taken concurrently which make up Auto Technology II. The course is designed to provide students with the advanced skills needed to inspect, service and repair electrical circuits and devices. This comprehensive course is NATEF approved. Students will be involved in leadership and employability skills through SkillsUSA including local, state and national competitions. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Auto Technology program.**

### Introduction to Technology Education

IT 405P

Grade Level: 9, 10  
One Semester - 0.5 credit

This introductory level, technology-based class will introduce students to Engineering Design, Architectural Design and Production/Manufacturing Technology. Students will learn fundamentals of manufacturing and construction technology, create computer-aided drawings, production of prototypes, as well as research historical and future technology issues.

### Mobile HVAC

VE 622P

Grade Level: 11, 12  
One Semester - 0.5 credit  
Prerequisite: Auto Technology I courses



Mobile HVAC is a Technical level course and part of a series of courses taken concurrently which make up Auto Technology II. This course is designed to provide students with the basic and advanced theory of operation, service and repair of the air conditioning, heating, and vehicle cooling system as it relates to the mobile climate control system. This comprehensive course is NATEF approved. Students will be involved in leadership and employability skills through SkillsUSA including local, state and national competitions. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Auto Technology program.**

### Steering & Suspension I

VE 601P

Grade Level: 11, 12  
One Semester - 0.5 credit



Steering & Suspension is a Technical level course and part of a series of courses taken concurrently which make up Auto Technology I. The course is designed to provide students with the basic theories, equipment, and skills needed to inspect and service steering and suspension systems. This comprehensive course is NATEF approved. Students will be involved in leadership and employability skills through SkillsUSA including local, state and national competitions. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Auto Technology program.**

# MOBILE EQUIPMENT MAINTENANCE

## CAREER PATHWAYS COURSES

### Steering & Suspension II

VE 602P

Grade Level: 11, 12  
One Semester - 0.5 credit



Advanced Steering & Suspension is an application level course and part of a series of courses taken concurrently which make up Auto Technology I. The course is designed to provide students with the advanced skills needed to inspect, service and repair steering and suspension systems. This comprehensive course is NATEF approved. Students will be involved in leadership and employability skills through SkillsUSA including local, state and national competitions. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Auto Technology program.**

### Work Experience in Transportation I & II

VE 623P

VE 630P

Grade Level: 12  
One Semester - 1.5 credit



This advanced research and application course covers specific topics in transportation and will include opportunities for Work-Based Learning (WBL) such as in-house training, job shadowing, and/or internships. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Auto Technology program.**

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	College Now	21st Century Academy only	eLearning available	Weighted Grade	GRADUATION REQUIREMENT	Applied Communication	Practical & Consumer	Technology
		9	10	11	12										
CP 553P	Web Design I	•	•	•	•	0.5	T						✓	✓	✓
CP 554P	Web Design II	•	•	•	•	0.5	T						✓	✓	✓
CP 680 AP/BP	AP Computer Science A			•	•	1.0	A	✓		▲					✓
CP 660 AP/BP	AP Computer Science Principles		•	•	•	1.0	T			▲					✓
<b>Computer Science Academy Courses</b>															
CP 510 AP/BP	Technical Intro to Computer Science	•				1.0	I		21						✓
CP 635 AP/BP	Cybersecurity			•	•	1.0	A		21						✓
CP 640 AP/BP	Computer Science Senior Capstone				•	1.0	A		21				✓	✓	✓
<p>Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.</p>															

**AP Computer Science A**
CP 680 AP/BP

Grade Level: 11, 12

Two Semesters - 1.0 credit

Prerequisite: AP Computer Science Principles

This course provides students with the logical, mathematical, and problem-solving skills needed to design structured, well-documented computer programs that provide solutions to real-world problems. Specific topics may include programming methodology, features and procedures, algorithms, data structures, computer systems, and programmer responsibilities. **Guided Enrollment Note: Prior completion of Computer Programming I is highly recommended for students NOT in the Computer Science Academy.**

**Computer Science Senior Capstone**
CP 640 AP/BP

Grade Level: 12 21

Two Semesters - 1.0 credit

Prerequisite: Cybersecurity (SEC) or AP Computer Science A

This course is a culmination of the 4-year academy plan of study. It involves a student Professional Learning Experience and provides students with the information and skills necessary for success in managing projects and operating logistical ventures in technology, business, and industry. This course covers scheduling of resources, utilization of Gantt charts and risk management. Other possible topics include problem-solving and decision-making and building leadership skills. This course will also incorporate a survey of the careers within technology industries. **Guided Enrollment Note: This course is only offered at Olathe South High School as part of the Computer Science Academy. Open to Computer Science Academy students who are meeting academy expectations.**

**AP Computer Science Principles**
CP 660 AP/BP

Grade Level: 10, 11, 12

Two Semesters - 1.0 credit

Prerequisite: Web Design I & II (highly recommended)

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

**Cybersecurity**
CP 635 AP/BP

Grade Level: 11, 12 21

Two Semesters - 1.0 credit

Prerequisite: AP Computer Science Principles

This course introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. In this course, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely. **Guided Enrollment Note: This course is only offered at Olathe South High School as part of the Computer Science Academy.**

### Technical Intro to Computer Science

CP 510 AP/BP

Grade Level: 9

Two Semesters -1.0 credit

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Students will develop an introductory understanding of fundamental computer science concepts and apply computational thinking skills to solve problems through the use of entry level coding tools for computers and/or mobile devices. **Guided Enrollment Note: Highly recommend completed or concurrent enrollment in Algebra I. CP 505 AP/BP is offered only at Olathe South High School as part of the Computer Science Academy.**

### Web Design I

CP 553P

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

A foundation of web design will be gained by learning HTML and CSS, the standard web languages. Students will also learn how to make digital graphics. Students will incorporate all these, in addition to some basic JavaScript, to create website projects. They will have the opportunity to present their websites on the internet. **Guided enrollment Note: This course is offered at all high schools with open enrollment and is a required course for students pursuing the Web Design Strand of the 21st Century e-Communication Academy.**

### Web Design II

CP 554P

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

Prerequisite: Web Design I

Students will continue the development of their web designing skills by using industry-standard web development software. Students will learn to use good navigation design and ease-of-use principles while developing projects for the web. Graphic design skills as they relate to the web will also be studied. Websites will be created incorporating all the skills learned in this course. **Guided enrollment Note: This course is offered at all high schools with open enrollment and is a required course for students pursuing the Web Design Strand of the 21st Century e-Communication Academy.**

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	OATC Program	GRADUATION REQUIREMENT	Practical & Consumer
		9	10	11	12					
BU 500P	Business Essentials	•	•			0.5	I		✓	
HE 575P	Baking Food Science	•	•	•	•	0.5	T		✓	
HE 560P	Culinary Essentials	•	•	•	•	0.5	T		✓	
BU 520P	Entrepreneurship		•	•	•	0.5	T		✓	
HE 615P	Nutrition & Wellness	•	•	•	•	0.5	T		✓	
BU 547P	Principles of Marketing and Brand Management	•	•	•	•	0.5	T		✓	
BU 546P	Principles of Marketing and Selling	•	•	•	•	0.5	T		✓	
HE 476P	Career Connections				•	0.5	A		✓	
HE 475P	Community Connections			•	•	0.5	A		✓	
<b>OATC Culinary Arts Year 1 Courses</b>										
VE 356P	Baking & Pastry I			•	•	0.5	T	◆	✓	
VE 340P	Culinary Arts I			•	•	1.0	T	◆	✓	
VE 345P	Culinary Arts II			•	•	0.5	T	◆	✓	
VE 374 AP/BP	Culinary Work Experience I			•	•	1.0	A	◆	✓	
<b>OATC Culinary Arts Year 2 Courses</b>										
VE 357P	Baking & Pastry II				•	0.5	T	◆	✓	
VE 350	Culinary Arts III				•	0.5		◆	✓	
VE 372P	Event Planning & Management				•	0.5	T	◆	✓	
VE 375 A/B	Culinary Work Experience II				•	1.0		◆	✓	

Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.

### Baking & Pastry I VE 356P

Grade Level: 11, 12  
One Semester - 0.5 credit



This course will prepare students for careers or post-secondary programs related to the baking and pastry culinary business and industry. Based on industry standards, using commercial-grade equipment, students will develop skills in basic bread and pastry techniques applying food science principles. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Culinary Arts program.**

### Baking & Pastry II VE 357P

Grade Level: 12  
One Semester - 0.5 credit



This course is a continuation of Baking and Pastry I and offers students an advanced look into baking and pastry production (i.e. breads, cakes, tortes, pastry, and pies), with a continued emphasis on culinary math, safety and sanitation, and career readiness. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Culinary Arts program.**

### Baking Food Science HE 575P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This course is designed to provide students with the basic skills and knowledge that enhance scientific principles and how those principles can be applied to improve the health of individuals and families. Instruction is given concerning the physical, and chemical principles that affect the food we eat. **Guided Enrollment Note: This course is highly recommended as a pre-requisite for the Culinary Arts program at Olathe Advanced Technical Center (OATC).**

### Business Essentials BU 500P

Grade Level: 9, 10  
One Semester - 0.5 credit

This course is designed for the student who seeks an introduction to business, marketing, and management. Students will develop the skills necessary to succeed in the business environment by studying forms of business ownership, functions of management, budgeting and finance, accounting, business communications, law, marketing, and economics. This course is appropriate for any student interested in entrepreneurship and owning their own business.

# RESTAURANT & EVENT MANAGEMENT

## CAREER PATHWAYS COURSES

### Career Connections

HE 476P

Grade Level: 12

One Semester - 0.5 credit

Prerequisite: 1.0 credit within one of the following pathways: Family, Community, Consumer Services; Fashion, Apparel, Interior Design (FAID); or Restaurant & Event Management.

Career Connections provides human services/family and consumer sciences related work-based learning experiences (paid or unpaid) outside the traditional classroom. Learning goals are set by the student, teacher and employer/adult mentor to create field experiences and/or discussions related to human services/ family and consumer sciences occupational technical skills. **Guided Enrollment Note: Enrollment requires approval by FCS instructor.**

### Community Connections

HE 475P

Grade Level: 11, 12

One Semester - 0.5 credit

Prerequisite: 1.0 credit concurrent or completed within Family, Community, & Consumer Services pathway

Community Connections provides community based/school-based learning experiences typically within the family and consumer sciences classroom. Learning goals are set by the student, teacher and community partners to create experiences and/or discussions to enhance the development of the workplace skills (e.g. leadership, empathy, communication, problem solving, cooperation, critical thinking, and resource management) needed to be successful in service related careers.

### Culinary Arts I

VE 340P

Grade Level: 11, 12

Two Semesters - 1.0 credit



This course integrates the knowledge, skills and practices required for careers in the restaurant industry. Topics include safety and sanitation, menu management, use of commercial tools and equipment, food production, culinary math, restaurant management principles, and career readiness practice. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Culinary Arts program.**

### Culinary Arts II

VE 345P

Grade Level: 11, 12

One Semesters - 0.5 credit



This course builds upon Culinary Arts I course by expanding student knowledge, skills and practices. Students will expand on more advanced culinary skill development and add topics such as food service management. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Culinary Arts program..**

### Culinary Arts III

VE 350

Grade Level: 12

One Semesters - 0.5 credit



This course builds upon Culinary Arts II course by expanding student knowledge, skills and practices. Students will expand on more advanced culinary skill development and add topics such as food service management. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Culinary Arts program.**

### Culinary Essentials

HE 560P

Grade Level: 9, 10, 11, 12

One Semester - 0.5 credit

This course will prepare students for careers or post-secondary programs related to the Culinary Arts. The course will include knife skills and a variety of cooking techniques. Students will expand their knowledge of flavor profiles. **Guided Enrollment Note: This class is strongly recommended for the Culinary Arts program located at Olathe Advanced Technical Center.**

### Culinary Work Experience I

VE 374 AP/BP

Grade Level: 11, 12

Two Semesters - 1.0 credit



This course 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. Students enrolled in this course are expected to learn and practice skills in the culinary field so that they are able to apply them in work-based experiences following industry standards and regulations. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Culinary Arts program.**

### Culinary Work Experience II

VE 375 A/B

Grade Level: 12

Two Semesters - 1.0 credit



This course 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. Students enrolled in this course are expected to learn and practice skills in the culinary field so that they are able to apply them in work-based experiences following industry standards and regulations. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Culinary Arts program.**

### Entrepreneurship

BU 520P

Grade Level: 10, 11, 12

One Semester - 0.5 credit

This course is designed to teach the student the basic principles and practices of owning a business. Students will learn about planning, organizing, controlling, problem-solving, and decision-making as it relates to owning a small business. Students will explore the free enterprise system through a combination of case studies, group work and speakers.

### Event Planning & Management

VE 372P

Grade Level: 12

One Semester - 0.5 credit

Prerequisite: Culinary Arts I courses



This course provides students with the knowledge and skills related to the event planning and implementation process. It will include establishing client relationships, the importance of communication, planning process, resource management, quality service and staffing issues. Students will plan school and community-based events, from marketing to food preparation to service. This course is perfect for potential chefs, business owners, wedding planners, party planners, hotel managers, bed & breakfast owners, and more. **Guided Enrollment Note: This course is offered at Olathe Advanced Technical Center (OATC) as part of the Culinary Arts program.**



**Nutrition & Wellness**

HE 615P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Nutrition & Wellness will prepare students to explore different components of wellness which include physical, social, and emotional health. Students will prepare for careers in nutrition and wellness by taking an in-depth look at various types of diets, nutrition information, disease prevention, and physical activity to identify and apply healthy practices for a lifetime of wellness.

**Principles of Marketing and Brand Management**

BU 547P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This class offers students insight into the field of marketing and branding decisions. Students will be introduced to promotional and branding strategies as well as learning pricing, distribution and marketing research through project-based learning.

**Principles of Marketing and Selling**

BU 546P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

This class offers students insight into the selling processes affecting the marketing of goods and services from the producer to the consumer. Project based learning provides the students with authentic learning opportunities.

# TEACHING/TRAINING

## CAREER PATHWAYS COURSES

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	21st Century Academy only	GRADUATION REQUIREMENT	Practical & Consumer	Technology
		9	10	11	12						
HE 411P	Family Studies		•	•	•	0.5	T		✓		
HE 413P	Lifespan Development	•	•	•	•	0.5	T		✓		
<b>Future Educators Academy Courses</b>											
WW 640 A/B	Intro to Education	•				1.0		21	✓		
WW 645 AP/BP	Teaching as a Career		•			1.0	T	21	✓	✓	
WW 654P	Innovations in Education			•		0.5	T	21	✓	✓	
WW 655P	Teaching Observation			•	•	0.5	T	21	✓		
WW 642P	Principles of Coaching & Leadership I		•	•	•	0.5	T	21	✓		
WW 643P	Principles of Coaching & Leadership II		•	•	•	0.5	A	21	✓		
WW 680P	Future Educators Senior Capstone I				•	1.0	A	21	✓		
WW 681P	Future Educators Senior Capstone II				•	1.0		21	✓		

Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.

### Family Studies

HE 411P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit

This course explores the roles and responsibilities of parents including parenting styles and family stages, reproduction and prenatal development, and the development of children and parents as their earliest teacher. Parenting and behavior guidance skills are strengthened through a study of positive family relationships, child abuse and neglect, safety, and health practices. Many real-life experiences will be introduced through the use of Real-Care Babies, Empathy Belly simulators, and guest speakers. Occupations related to meeting the needs of families will be analyzed.

### Future Educators Senior Capstone I

WW 680P

### Future Educators Senior Capstone II

WW 681P

Grade Level: 12  
One Semester - 1.0 credit

21

Senior Capstone is a culmination of the 4-year academy plan of study and involves a student Work-Based Learning Experience. This class synthesizes a student's academic learning and helps students further define their post-secondary plans. It gives students who are interested in a career working with children the opportunity to study child development and observe how children learn full time at a field site placement. The Teaching Internship experience also provides an opportunity to work with children under the supervision of an established classroom (field site) teacher. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Future Educators Academy. Open to Future Educators Academy students who are meeting academy expectations.**

### Innovations in Education

WW 654P

Grade Level: 11  
One Semester - 0.5 credit  
Prerequisite: Teaching as a Career

21

Students will increase their understanding of student needs and the impact of cultural awareness on education as well as continue to cultivate their identity as an educator. Students will focus on gaining skills and knowledge regards to integrating technology into teaching. This course provides instruction and practice for students who can train teachers, peers, and community individuals in the effective integration of technology. Training on various technology tools, professional demeanor, student engagement through technology apps, interactive experience, simulations, and troubleshooting is part of this course. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Future Educators Academy.**

### Introduction to Education

WW 640 A/B

Grade Level: 9  
Two Semesters - 1.0 credit

21

This course will provide a foundation for understanding the workings of the educational profession. Students will explore the qualities, skills, and behaviors of effective educators, as well as investigate approaches to teaching and strategies for learning. Students will have the opportunity to define who they are and what type of educator they could become. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Future Educators Academy.**

### Lifespan Development

HE 413P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Life Span Development prepares students for occupations associated with meeting the needs of people by learning about physical, intellectual, emotional and social development from childhood to death. In addition, this course helps students discover how individuals respond to the various stages of the life span with a strong tie to teen years, adulthood and later years.

### Principles of Coaching & Leadership I

WW 642P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit

21

Coaching is an extension of teaching just in a different environment. Students will learn the fundamentals of coaching on the field, in the classroom, and how to motivate students to achieve their best. Coaching psychology, fostering positive relationships, managing/ organizing events, and developing a positive team culture will be explored. Students will develop policies, learn about certification attainment for coaches, explore KSHSAA protocols, review Champions of Character, and work with coaches to learn best practices. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Future Educators Academy.**

### Principles of Coaching & Leadership II

WW 643P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit

21

Prerequisite: Principles of Coaching & Leadership I

Principles of Coaching and Leadership II is the application level course of the Coaching and Leadership Strand. Students will dive into the role of coaching through observation, working with coaches during the on/off season, earning certifications, and studying the impact a coach can make on their students. This course may involve a Work-Based Learning Experience. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Future Educators Academy.**

### Teaching as a Career

WW 645 AP/  
BP

Grade Level: 10  
Two Semesters - 1.0 credit

21

A foundation of understanding will be fostered in the area of educational practices. Students will gain experience and knowledge in the areas of instructional planning and design, classroom management, technology integration, classroom ethics, and working with diverse populations. Students will be challenged to navigate the field of education through collaboration, course simulations, off-campus activities, and engaging interactive experiences. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Future Educators Academy.**

### Teaching Observation

WW 655P

Grade Level: 11, 12  
One Semester - 0.5 credit

21

In this course, students will increase their understanding of the requirements of the teaching profession through observations and study of best practices in multiple settings. Observation analysis will be focused around the elements of effective instruction - planning and preparation, the learning environment, instructional strategies, and teacher/trainer professional responsibilities. Students will participate in continued collaboration, course simulations, off-campus activities, and engaging interactive experiences. **Guided Enrollment Note: This course is offered only at Olathe East High School as part of the Future Educators Academy.**

# WEB & DIGITAL COMMUNICATIONS

## CAREER PATHWAYS COURSES

Course No.	Course Title	Possible Course Level				Credit	Pathway Level (Intro, Technical, Application)	21st Century Academy only	College Now	eLearning available	GRADUATION REQUIREMENT	Applied Communication	Fine Art	Practical & Consumer	Technology	
		9	10	11	12											
CP 455P	Graphic Design I	•	•	•	•	0.5	T					✓	✓		✓	
CP 458P	Graphic Design II	•	•	•	•	0.5	T					✓	✓		✓	
CP 553P	Web Design I	•	•	•	•	0.5	T					✓		✓	✓	
CP 554P	Web Design II	•	•	•	•	0.5	T					✓		✓	✓	
CP 556 AP/BP	Web & Digital Communications Project Management			•	•	1.0	A					✓		✓	✓	
<b>e-Communication Academy Courses</b>																
AR 633P	Animation I		•	•	•	0.5	T	21				✓	✓	✓		
AR 634P	Animation II		•	•	•	0.5	T	21				✓	✓	✓		
AR 635P	Animation III			•	•	0.5	T	21	✓		✓	✓	✓			
AR 636P	Animation IV			•	•	0.5	T	21	✓		✓	✓	✓			
CP 400 AP/BP	Foundations of e-Communication	•				1.0	T	21			✓	✓	✓	✓		
CP 459P	Graphic Design III			•	•	0.5	T	21			✓	✓		✓		
CP 465P	Graphic Design IV			•	•	0.5	T	21			✓	✓		✓		
CP 558P	Web Design III			•	•	0.5	T	21	✓		✓		✓	✓		
CP 559P	Web Design IV			•	•	0.5	T	21	✓		✓		✓	✓		
CP 720 AP/BP	e-Communication Senior Capstone I & II-Interactive Media				•	2.0	A	21			✓		✓	✓		
<p>Courses offered within a pathway may vary at each school. Please visit with your school's counselor for specific school pathway courses. To be considered a CTE Completer, a student must complete a minimum of 3.0 credits within a pathway; at least 2 of those credits must be a combination of technical and application level courses plus earning an industry-recognized certification or passing a third-party, end-of-Pathway assessment.</p>																

### Animation I

AR 633P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit

21

Prerequisite: Foundations of e-Communication

Students are introduced to the art of storytelling through the processes of drawing, storyboarding, sequential art, and narrative writing to create stunning animation. The courses may emphasize the development of digitally generated and/or computer-enhanced media by using a variety of tools, such as Adobe Photoshop, After Effects, and Autodesk Maya. The focus is on learning how to bring objects and characters to life to be used in film, television, web, business, training, special effects, and computer gaming. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the e-Communication Academy.**

### Animation II

AR 634P

Grade Level: 10, 11, 12  
One Semester - 0.5 credit

21

Prerequisite: Animation I

Students continue to learn the art of storytelling through the processes of drawing, storyboarding, sequential art, and narrative writing to create stunning animation. The courses may emphasize the development of digitally generated and/or computer-enhanced media by continuing to use a variety of tools; such as Adobe Photoshop, After Effects, and Autodesk Maya. The focus is on learning how to bring objects and characters to life to be used in film, television, web, business, training, special effect, and computer gaming. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the e-Communication Academy.**

### Animation III

AR 635P

Grade Level: 11, 12  
One Semester - 0.5 credit  
Prerequisite: Animation II

21

This course emphasizes the development of digitally generated and/or computer-enhanced media, including 2D and 3D elements, graphic representation, development of the Principles of Animation, recording media, and distribution tools and methodologies. Instruction provides venue for such sophisticated, programming sequences and methodologies as are integrated into actions of character rigs creating new behaviors. Compilation of media including sound, video, special effects, and other motion graphic skills are implemented. Programs that may be used include Adobe After Effects, Adobe Character Animator, and/or Adobe Animate. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the e-Communication Academy.**

### Animation IV

AR 636P

Grade Level: 11, 12  
One Semester - 0.5 credit  
Prerequisite: Animation III

21

This course continues to emphasize the development of digitally generated and/or computer-enhanced media, including 2D and 3D elements, graphic representation, development of the Principles of Animation, recording media, and distribution tools and methodologies. This course helps students create sophisticated animations and enhanced projects to get ready for e-Communication Capstone Coursework. Instruction provides a venue for such sophisticated, programming sequences and methodologies as are integrated into actions of character rigs creating new behaviors. Compilation of media including sound, video, special effects, and other motion graphic skills are implemented. Programs that may be used include Autodesk Maya, Adobe After Effects, Adobe Character Animator, and/or Adobe Animate. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the e-Communication Academy.**

### e-Communication Senior Capstone I & II- Interactive Media

CP 720 AP/BP

Grade Level: 12  
Two Semesters - 2.0 credits

21

This course is a culmination of the 4-year academy plan of study and involves a student Professional Learning Experience. The course synthesizes a student's academy learning and helps students further define their post-secondary plans. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the e-Communication Academy. Open to e-Communication Academy students who are meeting academy expectations.**

### Foundations of e-Communication

CP 400 AP/BP

Grade Level: 9  
Two Semesters - 1.0 credit

21

This course provides students with the opportunity to explore the communication process to produce visual imagery and to apply graphic techniques to various fields including advertising, animation, TV/video, and web. Topics include analyzing the design elements and principles, exploring industry tools, software, and equipment and learning composition techniques to develop a quality product. This course is hard-hitting and production oriented, simulating the real work environment of the communication industry. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the e-Communication Academy.**

### Graphic Design I

CP 455P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

Students will develop knowledge in commercial graphic design as a form of visual and artistic communication while learning to effectively communicate ideas and information to business and customer audiences via illustration and other forms of digital or printed media. Students will learn design elements and principles, concept design, layout and develop technical skills needed to produce a variety of publications. In addition, students will discover a wide range of career possibilities available to a graphic designer. Students will begin to develop a portfolio of work. **Guided Enrollment Note: This course is offered at all high schools with open enrollment and is a required course for students pursuing the Graphic Design Strand of the 21st Century e-Communication Academy.**

### Graphic Design II

CP 458P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Graphic Design I

Students will advance their knowledge and skills of graphic design, illustration and image manipulation. Students will acquire knowledge of page layout, create digital illustrations to effectively communicate ideas and information to business and customer audiences. Course topics include the ways in which visual messages are used in society, the skills needed by a graphic designer and the potential areas of specialization and employment. Students will continue to build a portfolio of work. **Guided enrollment Note: This course is offered at all high schools with open enrollment and is a required course for students pursuing the Graphic Design Strand of the 21st Century e-Communication Academy.**

### Graphic Design III

CP 459P

Grade Level: 11, 12  
One Semester - 0.5 credit  
Prerequisite: Graphic Design II

21

Students expand their knowledge through accelerated learning in graphic design as a means of visual communication, exploring a variety of media, tools and software used by design and interactive media companies worldwide to communicate ideas visually. Students apply design and illustration principles, and develop the technical foundation needed to excel in future courses and in client work. In addition, students explore a wide range of careers in graphic design, illustration, fine arts, apparel/textile design, industrial design, web design, social design, and User Interface (UI)/User Experience (UX) design. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the e-Communication Academy.**

### Graphic Design IV

CP 465P

Grade Level: 11, 12  
One Semester - 0.5 credit  
Prerequisite: Graphic Design III

21

Students expand their knowledge through accelerated learning in graphic design as a means of visual communication, exploring a variety of industry tools, software, and equipment used by design and interactive media companies worldwide. Students analyze and apply design elements and principles and learn composition techniques to develop and design a quality product, and to excel in future courses and in client work. **Guided Enrollment Note: This course is offered only at Olathe Northwest High School as part of the e-Communication Academy.**

# WEB & DIGITAL COMMUNICATIONS

## CAREER PATHWAYS COURSES

### Web Design I

CP 553P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit

A foundation of web design will be gained by learning HTML and CSS, the standard web languages. Students will also learn how to make digital graphics. Students will incorporate all these, in addition to some basic JavaScript, to create website projects. They will have the opportunity to present their websites on the internet. **Guided enrollment Note:** *This course is offered at all high schools with open enrollment and is a required course for students pursuing the Web Design Strand of the 21st Century e-Communication Academy.*

### Web Design II

CP 554P

Grade Level: 9, 10, 11, 12  
One Semester - 0.5 credit  
Prerequisite: Web Design I

Students will continue the development of their web designing skills by using industry-standard web development software. Students will learn to use good navigation design and ease-of-use principles while developing projects for the web. Graphic design skills as they relate to the web will also be studied. Websites will be created incorporating all the skills learned in this course. **Guided enrollment Note:** *This course is offered at all high schools with open enrollment and is a required course for students pursuing the Web Design Strand of the 21st Century e-Communication Academy.*

### Web Design III

CP 558P

Grade Level: 11, 12  
One Semester - 0.5 credit  
Prerequisite: Web Design II

21

Students learn internet marketing from the standpoint of conducting business on the internet and how to create websites using advanced graphic and web design techniques, following effective layout, user-interface, usability, and cross-platform compatibility principles. Students use elements of advanced web design to create websites that are responsive for mobile, tablet, and desktop screen sizes. Students will create and edit content-managed sites for portfolios, businesses, blogs, and client websites. **Guided Enrollment Note:** *This course is offered only at Olathe Northwest High School as part of the e-Communication Academy*

### Web Design IV

CP 559P

Grade Level: 11, 12  
One Semester - 0.5 credit  
Prerequisite: Web Design III

21

Students will advance their internet marketing skills to independently create websites using advanced graphic and web design techniques, following effective layout, user-interface, usability, and cross-platform compatibility principles. Students use elements of advanced web design to create websites that are responsive for mobile, tablet, and desktop screen sizes. Students will administer and edit content-managed sites for portfolios, businesses, blogs, and client websites. Student learning will expand to include internet marketing principles and functions from the standpoint of conducting business on the internet. Students will learn how to use the internet as a marketing tool through analysis, campaigns, and business management to develop a global perspective of the internet. **Guided Enrollment Note:** *This course is offered only at Olathe Northwest High School as part of the e-Communication Academy.*

### Web & Digital Communications Project Management

CP 556 AP/BP

Grade Level: 11, 12  
One Semester - 1.0 credit  
Prerequisite: Web Design II or Graphic Design II

This course provides students with the information and skills necessary for success in managing projects and operating logistical ventures in technology, business, and industry. Students will use their web design skills to create advanced websites while using industry-standard software for animation and video creation for the web. This course incorporates a survey of the careers within technology and engineering industries.



The Olathe Public Schools offers 15 unique and innovative 21st Century Academies for high school students. These innovative, four-year programs allow students to build upon their interests and learn specific knowledge and skills they can apply toward their post-secondary experiences and career fields. Academies are housed within the district's high schools.

Students began exploring their interest in 21st Century Academies during middle school through the High School Options fair, 8th grade Career Expo, open houses, and information sessions provided by the various academies. Eighth graders are eligible to apply to 21st Century Academies in the fall and enter the academy as a freshman.

OLATHE EAST	OLATHE NORTH	OLATHE NORTHWEST	OLATHE SOUTH	OLATHE WEST
<ul style="list-style-type: none"> <li>•Civic Leadership</li> <li>•Design</li> <li>•Future Educators</li> </ul>	<ul style="list-style-type: none"> <li>•Animal Health</li> <li>•Distinguished Scholars</li> <li>•Geoscience</li> <li>•Medical Professions</li> <li>•Sports Medicine &amp; Exercise Science</li> </ul>	<ul style="list-style-type: none"> <li>•e-Communication</li> <li>•Engineering</li> </ul>	<ul style="list-style-type: none"> <li>•BioMedical Engineering</li> <li>•Business Finance</li> <li>•Computer Science</li> </ul>	<ul style="list-style-type: none"> <li>•Green Tech</li> <li>•Public Safety</li> </ul>

All 21st Century High School Academies offer:

- opportunity to earn a transcript endorsement
- rigorous, relevant academics based on specific interests
- opportunities to work with career experts
- project-based learning/authentic assessment
- pre-professional experiences in a variety of venues

Additional information is also available from a variety of sources including middle and high school counselors, the district website, and/or the specific high school where an academy is located.

web: <https://www.olatheschools.org/21stcenturyacademies>

twitter: @Olathe21st

Email: [21century@olatheschools.org](mailto:21century@olatheschools.org)

Phone: 913-780-8175

**SEE HOW INNOVATIVE HIGH SCHOOL EDUCATION CAN BE!**






# Class Index

Course Title	Course No.	PPG Page No.	9th Grade	10th Grade	11th Grade	12th Grade	Credit	Pathway	Pathway Level	21st Century Academy only	OATC Program	College Now	NCAA Approved	Applied Communication	English	Fine Arts	Math	PE & Health Education	Practical & Consumer	Science - Life	Science - Physical	Social Studies	Technology	Individual Focus
American Sign Language II	FL 705 A/B	49		•	•	•	1.0						✓	✓										
American Sign Language III	FL 708 A/B	50			•	•	1.0						✓	✓										
Anatomy & Physiology	SC 530 AP/BP	36,89			•	•	1.0	Health Sciences	T				✓							✓				
Animal Health Investigations	SC 525 A/B	36	•				1.0			21									✓	✓				
Animal Health-Vet Assistant	VE 220 AP/BP	57				•	1.0	Animal Science	A		◆								✓	✓				
Animal Science	SC 553	36		•	•		0.5			21										✓				
Animal Science	VE 210P	57			•	•	1.0	Animal Science	T		◆								✓	✓				
Animal Science Internship	VE 235P	57				•	1.0	Animal Science	A		◆								✓					
Animation	AR 643	29	•	•	•	•	0.5						✓		✓				✓				✓	
Animation I	AR 633P	108		•	•	•	0.5	Web/Digital Communications	T	21				✓	✓				✓					
Animation II	AR 634P	108		•	•	•	0.5	Web/Digital Communications	T	21				✓	✓				✓					
Animation III	AR 635P	109			•	•	0.5	Web/Digital Communications	T	21		✓		✓	✓				✓					
Animation IV	AR 636P	109			•	•	0.5	Web/Digital Communications	T	21		✓		✓	✓				✓					
AP Biology	SC 515 AP/BP	36,89			•	•	1.0	Health Sciences	T			✓	✓							✓				
AP Calculus AB	MA 810 A/B	32			•	•	1.0					✓	✓				✓							
AP Calculus BC	MA 850 A/B	32			•	•	1.0					✓	✓				✓							
AP Chemistry	SC 635 A/B	39			•	•	1.0					✓	✓							✓				
AP College Physics I	SC 730 A/B	39			•	•	1.0					✓	✓							✓				
AP Computer Science A	CP 680 AP/BP	16,101			•	•	1.0	Programming & Software Development	A			✓	✓										✓	
AP Computer Science Principles	CP 660 AP/BP	17,101		•	•	•	1.0	Programming & Software Development	T				✓										✓	
AP English Language & Composition	LA 425 A/B	19			•		1.0					✓		✓										
AP English Literature & Composition	LA 445 A/B	19				•	1.0					✓	✓		✓									
AP Environmental Science	SC 490 AP/BP	36,77			•	•	1.0	Energy	T			✓	✓							✓				
AP European History	SS 460 A/B	42		•	•	•	1.0					✓	✓										✓	
AP French V	FL 450 A/B	50				•	1.0					✓	✓	✓										
AP Music Theory	PA 450 (.5) PA 450 A/B	25		•	•	•	0.5-1.0					✓			✓									
AP Physics II	SC 735 A/B	40				•	1.0						✓							✓				
AP Physics C	SC 740 A/B	40				•	1.0						✓							✓				
AP Psychology	SS 640 A/B	42			•	•	1.0					✓	✓						✓			✓		
AP Spanish V	FL 650 A/B	51				•	1.0					✓	✓	✓										
AP Statistics	MA 860 A/B	32			•	•	1.0					✓	✓				✓							
AP Studio Art: 2-D Design	AR 580 A/B	29		•	•	•	1.0								✓									
AP Studio Art: 3-D Design	AR 581A/B	29		•	•	•	1.0								✓									
AP Studio Art: Drawing	AR 582 A/B	29		•	•	•	1.0								✓									
AP United States Government and Politics	SS 715	42,84				•	0.5						✓	✓									✓	
AP United States History	SS 515 A/B	42,84			•	•	1.0						✓	✓									✓	
Apparel Production I	HE 858P	22,82	•	•	•	•	0.5	Fashion, Apparel, Int Des	T											✓				
Apparel Production II	HE 859P	22,82		•	•	•	0.5	Fashion, Apparel, Int Des	T											✓				
Applied Algebra I	MA 542 A/B	32	•				1.0										✓							
Applied Geometry	MA 544 A/B	32		•			1.0										✓							

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Aquatic Methods	SC 480 A/B	36		•	•		1.0			21									✓	✓				
Architecture Design I	IT 430P	47,66	•	•	•	•	0.5	Construction & Design	T										✓				✓	
Architecture Design II	IT 440P	47,67	•	•	•	•	0.5	Construction & Design	T										✓				✓	
Argumentation & Debate	PA 740	25	•	•	•	•	0.5					✓	✓											
Art History 	AR 850E	29	•	•	•	•	0.5								✓									
Astronomy	SC 440	40			•	•	0.5						✓							✓				
Aviation Fundamentals	VE 715P	59			•	•	0.5	Aviation Maintenance	T		◆								✓				✓	
AVID 10	WW 450 A/B	44		•			1.0							✓					✓					
AVID 11	WW 455 A/B	45			•		1.0							✓					✓					
AVID 12	WW 460 A/B	45				•	1.0							✓					✓					
AVID 9	WW 445 A/B	44	•				1.0							✓					✓					
Baking & Pastry I	VE 356P	103			•	•	0.5	Restaurant & Event Management	T		◆								✓					
Baking & Pastry II	VE 357P	103				•	0.5	Restaurant & Event Management	T		◆								✓					
Baking Food Science	HE 575P	22	•	•	•	•	0.5	Restaurant & Event Management	T										✓					
Banking and Finance	BU 680P	61			•	•	0.5	Business Finance	A	21									✓					
Basic Darkroom Photography	AR 450	29		•	•	•	0.5			21					✓				✓					
Basic Digital Photography	AR 455	30	•	•	•	•	0.5								✓				✓				✓	
Basic Life Support for Healthcare Providers	VE 541P	70,75,90				•	0.5	Corrections, Security, & Law Enforcement Emergency & Fire Management Services Health Science	T		◆	✓							✓					
Biology	SC 410 AP/BP	37,90	•	•	•	•	1.0	Health Science	I				✓							✓				
BioMedical Engineering I	SC 642 A/B	36		•			1.0			21			✓							✓				✓
BioMedical Engineering II	SC 644 A/B	36			•		1.0			21			✓							✓				
BioMedical Engineering Senior Capstone	SC 770 A/B	36				•	1.0			21									✓	✓				
Black American History	SS 445	42		•	•	•	0.5					✓	✓									✓		
Brakes I	VE 603P	98			•	•	0.5	Mobile Equipment Maintenance	T		◆	✓							✓					✓
Brakes II	VE 604P	98			•	•	0.5	Mobile Equipment Maintenance	A		◆	✓							✓					✓
Business Communications	BU 620P	17,63,71,95		•	•	•	0.5	Marketing Business Management & Entrepreneurship	T										✓					
Business Economics	SS 612P	17,43,61,64,71,85,95	•	•	•	•	0.5	Business Finance Business Management & Entrepreneurship Corrections, Security, & Law Enforcement Government & Public Administration Marketing	T										✓			✓		
Business Essentials	BU 500P	17,62,64,73,96,98,103	•	•			0.5	Digital Media Business Finance Business Management & Entrepreneurship Marketing Mobile Equipment Maintenance Restaurant & Event Management	I										✓					
Business Essentials II	BU 501P	62	•	•			0.5	Business Finance	I	21									✓					
Business Finance Senior Capstone I	BU 685P	62				•	1.0	Business Finance	A	21									✓					
Business Finance Senior Capstone II	BU 686P	62				•	1.0	Business Finance	A	21									✓					



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Creative Writing: Literary Magazine	LA 540	20			•	•	0.5							✓										
Culinary Work Experience I	VE 374 AP/BP	104			•	•	1.0	Restaurant & Event Management	A	◆									✓					
Culinary Work Experience II	VE 375 A/B	104				•	1.0	Restaurant & Event Management		◆									✓					
Culinary Arts I	VE 340P	104			•	•	1.0	Restaurant & Event Management	T	◆									✓					
Culinary Arts II	VE 345P	104			•	•	0.5	Restaurant & Event Management	T	◆									✓					
Culinary Arts III	VE 350	104				•	0.5	Restaurant & Event Management		◆									✓					
Culinary Essentials	HE 560P	23,64, 80, 104	•	•	•	•	0.5	Business Management & Entrepreneurship Restaurant & Event Management Family, Community, & Consumer Services	T										✓					
Cybersecurity	CP 635 AP/BP	101			•	•	1.0	Programming & Software Development	A	21													✓	
Dance Team	PA 552 A/B	26		•	•	•	1.0									✓								
Dance Team 9	PE 610 A/B	34	•				1.0											✓						
DC Electronics	VE 725P	59				•	1.0	Aviation Maintenance	A	◆	✓								✓				✓	
Design and Development	IT 552 AP/BP	64,78			•		1.0	Business Management & Entrepreneurship Engineering & App Math	A	21									✓				✓	
Design & Engineering Workplace Experience	IT 795 AP/BP	78				•	1.0	Engineering & App Math	A	21	✓								✓				✓	
Design Senior Capstone	IT 792 AP/BP	78				•	1.0	Engineering & App Math	A	21									✓				✓	
Digital Design & Graphics	AR 612	30	•	•	•	•	0.5							✓	✓								✓	
Digital Electronics	VE 720P	59,79			•	•	1.0	Aviation Maintenance	A	◆	✓								✓				✓	
Digital Media Technology: Yearbook	LA 840 AP/BP	73	•	•	•	•	1.0	Digital Media	T					✓					✓				✓	
Drawing I	AR 410	30	•	•	•	•	0.5								✓									
Drawing II	AR 420	30	•	•	•	•	0.5								✓									
Drawing III	AR 430	30		•	•	•	0.5								✓									
Drawing IV	AR 440	30		•	•	•	0.5								✓									
Drive Train Technology	VE 614P	99			•	•	0.5	Mobile Equipment Maintenance	T	◆	✓								✓				✓	
Driver's Education	WW 500	45	•	•	•	•	0.5												✓					
DS Cross-Cultural Expeditions	WW 240 A/B	45	•				1.0			21				✓								✓	✓	
DS Senior Capstone (ELA)	WW 255 A/B	45				•	1.0			21									✓			✓	✓	
DS Senior Capstone (Math)	WW 258 A/B	45				•	1.0			21									✓			✓	✓	
DS Senior Capstone (Political Science)	WW 264 A/B	45				•	1.0			21									✓			✓	✓	
DS Senior Capstone (Science)	WW 261 A/B	45				•	1.0			21									✓			✓	✓	
DS Senior Capstone (Visual Arts)	WW 267 A/B	45				•	1.0			21									✓			✓	✓	
DS Symposium ELA (10)	WW 253 A/B	45		•			1.0			21									✓			✓	✓	
DS Symposium ELA (11)	WW 254 A/B	45			•		1.0			21									✓			✓	✓	
DS Symposium Math (10)	WW 256 A/B	45		•			1.0			21									✓			✓	✓	
DS Symposium Math (11)	WW 257 A/B	45			•		1.0			21									✓			✓	✓	
DS Symposium Political Science (10)	WW 262 A/B	45		•			1.0			21									✓			✓	✓	
DS Symposium Political Science (11)	WW 263 A/B	45			•		1.0			21									✓			✓	✓	
DS Symposium Science (10)	WW 259 A/B	45		•			1.0			21									✓			✓	✓	
DS Symposium Science (11)	WW 260 A/B	45			•		1.0			21									✓			✓	✓	
DS Symposium Visual Arts (10)	WW 265 A/B	45		•			1.0			21									✓			✓	✓	

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DS Symposium Visual Arts (11)	WW 266 A/B	45			•		1.0			21									✓			✓	✓	
e-Communication Senior Capstone I & II-Graphic Design	CP 715 AP/BP	87				•	2.0	Graphic Design	A	21				✓		✓			✓				✓	
e-Communication Senior Capstone I & II-Interactive Media	CP 720 AP/BP	109				•	2.0	Web & Digital Communications	A	21				✓					✓				✓	
e-Communication Senior Capstone I & II-Video	CP 725 AP/BP	73				•	2.0	Digital Media	A	21				✓					✓				✓	
Earth Science	SC 492	40			•	•	0.5						✓								✓			
Editorial Leadership Design & Production	CP 420 AP/BP	73			•	•	1.0	Digital Media	A					✓					✓				✓	
Electrical & Security Systems	VE 446P	67				•	0.5	Construction & Design	A	◆									✓					
Electronic & Electrical Systems I	VE 615P	99			•	•	1.0	Mobile Equipment Maintenance	T	◆	✓								✓				✓	
Electronic & Electrical Systems II	VE 617P	99			•	•	1.0	Mobile Equipment Maintenance	A	◆	✓								✓				✓	
ELL Pace	YA 150	21	•	•	•	•	0.5 -1.0																	
ELL Science Foundations	LA 913L A/B	21	•	•	•	•	1.0													✓	✓			
Emergency Medical Services (EMS)	VE 550P	75,90				•	1.0	Emergency & Fire Mgmt Services Health Science	A	◆									✓					
Energy Industry Fundamentals	GT 420 AP/BP	77			•		1.0	Energy	T	21													✓	✓
Energy Power & Society	GT 415 AP/BP	77			•	•	1.0	Energy	T	21			✓										✓	✓
Engine Mechanical Repair	VE 600P	99			•	•	0.5	Mobile Equipment Maintenance	T	◆	✓								✓				✓	
Engineering Drafting/CAD I	IT 411P	47,65, 67,79, 93	•	•	•	•	0.5	Business Management & Entrepreneurship Construction & Design Engineering & App Math Manufacturing & Production	T										✓				✓	
Engineering Drafting/CAD II	IT 420P	47,65, 67,79, 93	•	•	•	•	0.5	Business Management & Entrepreneurship Construction & Design Engineering & App Math Manufacturing & Production	T										✓				✓	
Engineering Senior Capstone	SC 785 AP/BP	79			•	•	1.0	Engineering & App Math	A	21									✓					
English 9	LA 310 A/B	20	•				1.0						✓		✓									
English 10	LA 412 A/B	20		•			1.0						✓		✓									
English 11:Career Prep 	LA 422 A/B	20			•		1.0						✓		✓									
English 11:College Prep	LA 420 A/B	20			•		1.0						✓		✓									
English 12:Career Prep	LA 430 A/B	20				•	1.0						✓		✓									
English 12: College Prep 	LA 440 A/B	20				•	1.0						✓		✓									
English Language Learners 1	LA 910	21	•	•	•	•	0.5 -1.0								✓									
English Language Learners 2	LA 911	21	•	•	•	•	0.5 -1.0								✓									
English Language Learners 3	LA 912	21	•	•	•	•	0.5 -1.0								✓									
Entrepreneurship	BU 520P	17,96, 99, 104		•	•	•	0.5	Business Finance Business Management & Entrepreneurship Marketing Mobile Equipment Maintenance Restaurant & Event Management	T										✓					

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Environmental Conservation	SC 551	37		•			0.5			21			✓						✓					
Essentials of Fashion, Apparel, Interior Design	HE 835P	23,82	•	•	•	•	0.5	Fashion, Apparel, Int Des	T										✓					
Event Planning & Management	VE 372P	104				•	0.5	Restaurant & Event Management	T		◆								✓					
FAID Studio	HE 866 AP/BP	23,83				•	1.0	Fashion, Apparel, Int Des	A										✓					
Family Studies	HE 411P	23,80, 106		•	•	•	0.5	Family, Community, & Consumer Services Teaching/Training	T										✓					
Fashion Trends I	HE 846P	23,83	•	•	•	•	0.5	Fashion, Apparel, Int Des	T										✓					
Fashion Trends II	HE 848P	23,83		•	•	•	0.5	Fashion, Apparel, Int Des	T										✓					
Financial Literacy	BU 610	16		•	•	•	0.5																	
Fine & Performing Arts Senior Independent Study	PA 900	26,30				•	0.5 -1.0									✓								
Fire Science I	PS 310 AP/BP	75		•	•		1.0	Emergency & Fire Management Services	T	21		✓							✓					
Fire Science II	PS 320 AP/BP	75			•	•	1.0	Emergency & Fire Management Services	A	21		✓							✓					
Forensic Science	SC 670 AP/BP	71			•	•	1.0	Corrections, Security & Law Enforcement	T	21			✓						✓					
Forensics: Interscholastic Speech & Drama	PA 720	26	•	•	•	•	0.5						✓		✓									
Foundation of Electronics	VE 700P	59,79			•	•	1.0	Aviation Maintenance	T		◆	✓							✓				✓	
Foundations of e-Communication	CP 400 AP/BP	87,96, 109	•				1.0	Graphic Design Marketing Web & Digital Communications	T	21				✓		✓			✓				✓	
French I	FL 410 A/B	50	•	•	•	•	1.0						✓	✓										
French II	FL 420 A/B	50	•	•	•	•	1.0						✓	✓										
French III	FL 430 A/B	50		•	•	•	1.0						✓	✓										
French IV	FL 440 A/B	50			•	•	1.0					✓	✓	✓										
Freshman Orchestra	PA 570 A/B	26	•				1.0								✓									
Fundamentals of EMS	VE 545P	90				•	0.5	Health Science	T		◆								✓					
Future Educators Senior Capstone I	WW 680P	106				•	1.0	Teaching/Training	A	21									✓					
Future Educators Senior Capstone II	WW 681P	106				•	1.0	Teaching/Training		21									✓					
Genetic Applications	SC 535 A/B	37		•			1.0			21			✓						✓					
Genetics & Biotechnology I	SC 540	37			•	•	0.5						✓						✓					
Genetics & Biotechnology II	SC 545	37			•	•	0.5						✓						✓					
Geometry	MA 540 A/B	33	•	•	•		1.0						✓			✓								
Geoscience Applications	SC 473 A/B	40			•		1.0			21			✓						✓		✓			
Geoscience Investigations	SC 471 A/B	40	•				1.0			21			✓								✓			
Geoscience Senior Capstone	SC 474 A/B	40				•	1.0			21									✓		✓			
German I	FL 510 A/B	50	•	•	•	•	1.0						✓	✓										
German II	FL 520 A/B	50		•	•	•	1.0						✓	✓										
German III	FL 530 A/B	50			•	•	1.0					✓	✓	✓										
German IV	FL 540 A/B	50				•	1.0					✓	✓	✓										
Gifted Services	YA 710G	46	•	•	•	•	0.5 1.0																	
Government and Public Relations Applications I & II	SS 484P / 485P	85			•		1.0	Government & Public Administration	A	21									✓				✓	









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Marine Biology	SC 415	38		•	•	•	0.5			21			✓						✓					
Marketing Applications	BU 531 AP/BP	18,96			•	•	1.0	Marketing	A										✓					
Materials Science in Engineering	SC 662P	79			•	•	0.5	Engineering & App Math	A	21										✓				
Media & Public Relations: Newspaper	LA 825 AP/BP	74	•	•	•	•	1.0	Digital Media	T				✓						✓				✓	
Medical Professions Investigations	SC 495 A/B	38	•				1.0			21									✓	✓				
Medical Professions Senior Capstone	SC 580 A/B	38				•	1.0			21									✓	✓				
Medical Terminology	SC 504P	76,91			•	•	0.5	Health Science	T		♦	✓							✓					
Microbiology	SC 552	38		•			0.5			21			✓							✓				
Mobile HVAC	VE 622P	99			•	•	0.5	Mobile Equipment Maintenance	T		♦	✓							✓				✓	
Modern World History 	SS 210 A/B	43	•				1.0					✓										✓		
Multivariable Calculus	MA 880	33				•	0.5					✓					✓							
Novice Debate	PA 730	27	•	•	•	•	0.5					✓	✓		✓									
Nutrition & Wellness	HE 615P	23,80,91,105	•	•	•	•	0.5	Family, Community, & Consumer Services Health Science Restaurant & Event Management	T										✓					
Oceanography	SC 450	41	•	•	•	•	0.5			21			✓										✓	
Office Assistant	ZZ 510 A/B	46			•	•	0.5																	
Painting	AR 530	30		•	•	•	0.5									✓								
Peer Mentor for Interpersonal Skills Class	YA 480	46		•	•	•	1.0						✓						✓					
Pharmacy Technician	VE 530P	91				•		Health Science	A		♦								✓					
Phlebotomy Technician	VE 525P	91				•		Health Science	A		♦								✓					
Photojournalism	LA 470 AP/BP	74,88	•	•	•	•	1.0	Digital Media Graphic Design	T				✓						✓				✓	
Physical Education Activities	PE 525	34		•	•	•	0.5																	✓
Physical Education Concepts 	PE 410	34	•	•			0.5													✓				
Physical Science	SC 210 A/B	41		•	•	•	1.0					✓											✓	
Physical Science Investigations I	SC 435	41			•	•	0.5					✓											✓	
Physics	SC 710 A/B	41		•	•	•	1.0					✓											✓	
Plant and Animal Science	GT 440 AP/BP	56			•	•	1.0		T	21									✓					
Plumbing Technology	VE 443P	68			•	•	0.5	Construction & Design	A		♦								✓					
Practical Law Fundamentals	SS 486 P	71,86		•			0.5	Government & Public Administration	T	21									✓				✓	
Pre-Calculus	MA 720 A/B	33			•	•	1.0				✓	✓				✓								
Principles of Applied Engineering	IT 416 AP/BP	79			•		1.0	Engineering & App Math	T	21									✓				✓	
Principles of Coaching & Leadership I	WW 642P	107		•	•	•	0.5	Teaching/Training	T	21									✓					
Principles of Coaching & Leadership II	WW 643P	107		•	•	•	0.5	Teaching/Training	A	21									✓					
Principles of Marketing and Brand Management	BU 547P	18,65,96,105	•	•	•	•	0.5	Business Management & Entrepreneurship Marketing Restaurant & Event Management	T										✓					
Principles of Marketing and Selling	BU 546P	18,65,97,105	•	•	•	•	0.5	Business Management & Entrepreneurship Marketing Restaurant & Event Management	T										✓					
Product Design Engineering	AR 755 AP/BP	79		•			1.0	Engineering & App Math	T	21					✓				✓				✓	
Production Methods I	VE 466P	93				•	1.0	Manufacturing & Production	T		♦								✓				✓	

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Production Print Reading	VE 439P	68,93			•	•	0.5	Construction & Design Manufacturing & Production	I	◆									✓					
Production Print Reading II	VE 451P	94				•	0.5	Manufacturing & Production	I	◆									✓					
Public Administration Fundamentals	SS 482 P	86		•			0.5	Corrections, Security & Law Enforcement Government & Public Administration	T	21									✓			✓		
Public Safety Physical Education	PE 425 AP/BP	72,76		•	•		1.0	Corrections, Security & Law Enforcement Emergency & Fire Management Services	T	21								✓						
Public Safety Capstone - Fire Science	PS 690P	72,76				•	0.5	Corrections, Security & Law Enforcement Emergency & Fire Management Services	A	21									✓					
Public Safety Capstone - Law Enforcement	PS 680 AP/BP	72				•	1.0	Corrections, Security & Law Enforcement Emergency & Fire Management Services	A	21									✓					
Public Speaking	PA 710	20	•	•	•	•	0.5						✓	✓										
Reading 10	WW 353	20		•			1.0							✓										
Reading 11	WW 354	20			•		1.0							✓										
Reading 12	WW 355	20				•	1.0							✓										
Reading 9	WW 352	20	•				1.0							✓										
Relationships & Personal Development	HE 430P	23,81			•	•	0.5	Family, Community, & Consumer Services	T										✓					
Remodel & Building Maintenance	VE 441P	68				•	0.5	Construction & Design	A	◆									✓					
Repertory Theatre	PA 650 A/B	27			•	•	1.0							✓	✓									
Research & Design for Architecture I	IT 560AP	48,68			•	•	0.5	Construction & Design	A										✓				✓	
Research & Design for Architecture II	IT 560BP	48,68			•	•	0.5	Construction & Design	A										✓				✓	
Research & Design in Building Trades	VE 447 AP/BP	68				•	1.0	Construction & Design	A	◆									✓					
Research in Animal Science	VE 231P	58				•	1.0	Animal Science	A	◆									✓					
Resource	YA 700 AR/BR	46	•	•	•	•	5-1																	
Sculpture	AR 570	30	•	•	•	•	0.5									✓								
Skilled Mechanical Trades	VE 442 AP/BP	68			•	•	1.0	Construction & Design	T	◆									✓					
Small Animal Care	VE 215P	58			•	•	1.0	Animal Science	A	◆									✓	✓				
Sociology	SS 620	43		•	•	•	0.5						✓									✓		
Spanish for Heritage Speakers I	FL 635 A/B	51	•	•	•	•	1.0						✓	✓										
Spanish for Heritage Speakers II	FL 645 A/B	52	•	•	•	•	1.0						✓	✓										
Spanish for Heritage Speakers III	FL 647 A/B	53	•	•	•	•	1.0						✓	✓										
Spanish I	FL 610 A/B	51	•	•	•	•	1.0						✓	✓										
Spanish II	FL 620 A/B	51	•	•	•	•	1.0						✓	✓										
Spanish III	FL 630 A/B	51		•	•	•	1.0						✓	✓										
Spanish IV	FL 640 A/B	51			•	•	1.0					✓	✓	✓										
Sports Information Directors (SID)	PA 810 AP/BP	74			•	•	1.0	Digital Media	T	21				✓					✓				✓	
Sports Medicine I	HS 420 AP/BP	91	•	•			1.0	Health Science	T	21									✓					
Sports Medicine II	SC 460 AP/BP	91			•	•	1.0	Health Science	A	21									✓	✓				
Sports Medicine Senior Capstone	HS 440 AP/BP	92				•	1.0	Health Science	T	21									✓					
Sports Medicine Senior Capstone-BLOCK	HS 441P	92				•	1.0	Health Science	A	21									✓					
Sports Psychology	SS 645	43		•	•	•	0.5												✓			✓		

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Course Title	Course No.	PPG Page No.	9th Grade	10th Grade	11th Grade	12th Grade	Credit	Pathway	Pathway Level	21st Century Academy only	OATC Program	College Now	NCAA Approved	Applied Communication	English	Fine Arts	Math	PE & Health Education	Practical & Consumer	Science - Life	Science - Physical	Social Studies	Technology	Individual Focus
Steering & Suspension I	VE 601P	99			•	•	0.5	Mobile Equipment Maintenance	T	♦	✓								✓				✓	
Steering & Suspension II	VE 602P	100			•	•	0.5	Mobile Equipment Maintenance	A	♦	✓								✓				✓	
Strength & Conditioning I	PE 510	34	•	•	•	•	0.5																✓	
Strength & Conditioning II	PE 515	34		•	•	•	0.5																	✓
Student Naturalist	SC 520 A/B	38			•	•	1.0						✓							✓				
Sustainable Resource Management	SC 427 AP/BP	56		•	•	•	1.0	Agricultural Science	T	21										✓				
Symphonic Band	PA 515	27		•	•	•	0.5								✓									
Teacher Assistant	ZZ 610 A/B	46			•	•	.5-1																	
Teaching as a Career	WW 645 AP/BP	107		•			1.0	Teaching/Training	T	21										✓			✓	
Teaching Observation	WW 655P	107			•	•	0.5	Teaching/Training	T	21										✓				
Technical Intro to Computer Science	CP 510 AP/BP	102	•				1.0	Programming & Software Development	T	21													✓	
Technical Theatre I	PA 610	27	•	•	•	•	0.5								✓				✓					
Technical Theatre II	PA 620	27	•	•	•	•	0.5								✓				✓					
Theatre Production I	PA 600	27	•	•	•	•	0.5								✓								✓	
Theatre Production II	PA 605	27	•	•	•	•	0.5						✓		✓									
United States Government 	SS 710	86				•	0.5						✓									✓		
United States History 	SS 510 A/B	86			•	•	1.0						✓									✓		
Video Production I	IT 820P	48,74	•	•	•	•	0.5	Digital Media	T				✓						✓				✓	
Video Production II	IT 900 AP/BP	48,74			•	•	1.0	Digital Media	A				✓						✓				✓	
Web & Digital Communications Project Management	CP 556 AP/BP	18, 110			•	•	1.0	Web & Digital Communications	A				✓						✓				✓	
Web Design I	CP 553P	18,65, 97, 102, 110	•	•	•	•	0.5	Business Management & Entrepreneurship Marketing Programming & Software Development Web & Digital Communications	T				✓						✓				✓	
Web Design II	CP 554P	18,65, 97, 102, 110	•	•	•	•	0.5	Business Management & Entrepreneurship Marketing Programming & Software Development Web & Digital Communications	T				✓						✓				✓	
Web Design III	CP 558P	110			•	•	0.5	Web & Digital Communications	T	21		✓	✓						✓				✓	
Web Design IV	CP 559P	110			•	•	0.5	Web & Digital Communications	T	21		✓	✓						✓				✓	
Welding Processes I	VE 463P	94			•	•	1.0	Manufacturing & Production	T	♦									✓				✓	
Welding Processes II	VE 470P	94			•	•	1.0	Manufacturing & Production	A	♦									✓				✓	
Wildlife Biology	SC 554	38		•	•		0.5			21			✓							✓				
Wind Ensemble	PA 520	27		•	•	•	0.5								✓									
Women's Studies	SS 448	43		•	•	•	0.5						✓	✓								✓		
Woodworking & Design I	IT 600P	48,68	•	•	•	•	0.5	Construction & Design	T										✓				✓	
Woodworking & Design II	IT 605P	48,68	•	•	•	•	0.5	Construction & Design	T										✓				✓	
Work Experience in Aviation	VE 780 AP/BP	60				•	1.0	Aviation Maintenance	A	♦	✓								✓				✓	
Work Experience in Transportation I & II	VE 623P VE 630P	100				•	1.5	Mobile Equipment Maintenance	A	♦									✓				✓	

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Work Experience in Welding I & II	VE 675P VE 472P	94				•	1.5	Manufacturing & Production	A		◆								✓					
Workplace Experience in A&C	VE 449P	69				•	0.5	Construction & Design	A		◆								✓					
Zoology	SC 555 A/B	38				•	1.0			21			✓							✓				



# Quick Reference

## Olathe East

14545 W. 127th  
Olathe, KS  
913-780-7120

<https://www.olatheschools.org/east>



Hawks

## Olathe Northwest

21300 College Blvd.  
Olathe, KS  
913-780-7150

<https://www.olatheschools.org/northwest>



Ravens

## Olathe North

600 E. Prairie  
Olathe, KS  
913-780-7140

<https://www.olatheschools.org/north>



Eagles

## Olathe South

1640 E. 151<sup>st</sup>  
Olathe, KS  
913-780-7160

<https://www.olatheschools.org/south>



Falcons

## Olathe West

2200 W. Santa Fe St.  
Olathe, KS  
913-780-7180

<https://www.olatheschools.org/west>



Owls

## Olathe Advanced Technical Center

611 N. Nelson  
Olathe, KS  
913-780-77026

<https://www.olatheschools.org/oatc>



Roadrunners

## Olathe Public Schools

14160 S. Black Bob Rd., PO Box 2000 • Olathe, Kansas 66063 • 913-780-7000

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### Notification Statement of Non-discrimination

The Olathe Public Schools prohibit discrimination on the basis of race, color, ethnicity, national origin, sex, disability, age, religion, sexual orientation or gender identity in its programs, activities or employment, and provides equal access to the Boy Scouts and other designated youth groups to its facilities as required by: Title IX of the Education Amendments of 1972, Title VI and Title VII of the Civil Rights Act of 1964, the Age Discrimination Act of 1975, the Americans with Disabilities Act (ADA), the Individuals with Disabilities Education Act, Section 504 of the Rehabilitation Act of 1973, the Equal Access Act of 1984 and other relevant state and federal laws as amended. Inquiries regarding compliance with applicable civil rights statutes related to race, ethnicity, gender, age discrimination, sexual orientation, gender identity or equal access may be directed to Staff Counsel, 14160 S. Black Bob Road, Olathe, KS 66063-2000, phone 913-780-7000. All inquiries regarding compliance with applicable statutes regarding Section 504 of the Rehabilitation Act and the Individuals with Disabilities Education Act and the Americans with Disabilities Act may be directed to the Executive Director of Special Services, 14160 S. Black Bob Rd. Olathe, KS 66063-2000, phone (913) 780-7000. Interested persons including those with impaired vision or hearing, can also obtain information as to the existence and location of services, activities and facilities that are accessible to and usable by disabled persons by calling the Assistant Superintendent, Operations. (05/22)