

Lyndon High School



2023-2024
Course Catalog

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Introduction

Lyndon High School works hard to focus on career selection and preparation for our students. This career focus starts in middle school when students begin an individual plan of study that uses Xello to begin exploring student interests, careers, and future plans. Students and parents are encouraged to discuss classes and career options at an early age and familiarize themselves with the 16 different career clusters and the pathways within each cluster. Ideally, once a student selects a pathway, enrollment and course selections of electives should be made with that cluster/pathway in mind. More information about career clusters and descriptions can be found at <https://xello.world/en/middle-and-high-school>. Students can log into Xello using their PowerSchool account. Staff work with students to create plans of study that will be updated and reviewed during the student's high school career. 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.

Disclaimer

Not all courses listed in this book will be offered yearly at Lyndon High School. However, through the enrollment process, it is our hope to offer the courses with the most student interest. This may mean that a course that has been requested may not be available due to low interest. In this case, we will look to the alternative courses and find the next best fit. It is important that alternative courses are selected with the same thought and care that primary requested are selected, since some programs may change.

Schedule Changes

Students may only change classes during the first three days of a semester. In order to do so, the student must get signatures from the classroom teacher they are leaving, the classroom teacher they are going to, as well as their parent/guardian signature. All schedule changes must be approved by the building principal. If a student wants to change classes prior to the start of a semester, no signatures are necessary.

NCAA/NAIA Eligibility

It is the responsibility of the student to register with the NCAA or NAIA. If a student is interested in NCAA eligibility for student athletes, please be sure to check <http://www.ncaaeligibilitycenter.org> for registering a student. The NAIA website is <https://www.playnaia.org>. NCAA, NAIA, and other eligibility questions are best answered by the compliance officers at the college where the student-athlete plans to attend.

Grade Level Classification

Any student enrolled at Lyndon High School is considered a student and continues in that status until one of the following occurs: the student graduates, the student withdraws after age 18 (students 16 or 17 years of age must have written consent from parents or legal guardians), the student transfers to another school, or the student is expelled. Students shall be classified according to the number of credits they have successfully completed as of September 15th each year. The following units must be earned: Freshmen 0-5 credits, Sophomores 6-14 credits, Juniors 15-20 credits, Seniors 18 or more credits.

Credit Recovery

Credit recovery can be done through Greenbush Virtual Academy or another outside credit recovery service according to the following guidelines:

1. Credit recovery service has been approved by the state of Kansas.
2. Students have approval from the counselor and/or principal.
3. Students cannot earn credit for coursework unless they have already failed the course and there's not room in their schedule to retake the course a high school or if the student needs more than 7 credits which is the amount typically earned in a school year.
4. Students cannot earn credit to replace a requirement class that they are currently enrolled in and are failing prior to the completion of the semester.
5. Exceptions to these guidelines can be made with the approval of the building principal.
6. Makeup credit work must be completed by the conclusion of each respective semester that the student is enrolled in or a "F" will be posted to the student's transcript. Having an incomplete is not an acceptable option.

Dual/concurrent Enrollment via Post-secondary Institution

1. A post-secondary institution is defined as a technical college or a community college.
2. A student must be an incoming junior or senior to participate in programs offered by a post-secondary institution.
3. The student must obtain approval of the counselor and the building principal to ensure they are in good standing and are on track to graduate.
4. All online classes are considered a part of the dual credit opportunity.
5. Juniors and Seniors may take an online class. The online class will be built into their class line schedule.

6. If students are enrolled in an online class, it is their responsibility to report their final grades from the post-secondary classes to the counselor. If a student is enrolled and does not complete their work or does not report their grade, a "F" will be posted on the student's transcript. Having an incomplete is not an acceptable option.

Reverse Credit

Lyndon High School allows reverse credit in the areas of English, Math, and Science from Flint Hills Technical College and Washburn Tech. These credits will/can be acceptable in meeting requirements necessary for graduation from Lyndon High School. A document indicating what programs and how many credits are associated with each program is available by request. Students utilizing the reverse credit option may not be able to meet the necessary requirements for Kansas Qualified Admissions and/or Kansas State Scholar.

USD 421 Graduation Requirements

Graduation requirements for high school students are established according to state statutes, the State Board of Education regulation, and the policy of the Board of Education of District 421. Students must earn a total of 24 credits in order to graduate from Lyndon High School, which must include the requirements on the following page. A credit is defined as the completion of a passed class. Credits are awarded in ½ credit increments and done so at the completion of each semester. Those students that have completed the requirements for graduation shall be allowed to participate in graduation exercises, unless participation is denied for appropriate reasons by school officials.

USD 421 Graduation Requirements Cont.

| | |
|---------------------------------|-------------|
| Language Arts | 4 credits |
| Mathematics | 3 credits |
| Science | 3 credits |
| Social Science | 3 credits |
| Fine Arts | 1 credit |
| Physical Education/Health | 1 credit |
| Consumer Personal Finance | ½ credit |
| Electives | 8.5 credits |
| Total | 24 credits |



Graduation Requirements by Grade Level

| | | |
|--|---------------------------|---------------------------|
| Freshman | 1st Sem | 2nd Sem |
| • English I | _____ | _____ |
| • Biology | _____ | _____ |
| • Math Selection | _____ | _____ |
| • Physical Education/Health | _____ | _____ |
| • Consumer Personal Finance (one semester) | _____ | _____ |
| Sophomore | 1st Sem | 2nd Sem |
| • English II | _____ | _____ |
| • Chemistry or Earth Science | _____ | _____ |
| • Math Selection | _____ | _____ |
| • World History | _____ | _____ |
| • Fine Arts Elective | _____ | _____ |
| Junior | 1st Sem | 2nd Sem |
| • English III | _____ | _____ |
| • Science Selection | _____ | _____ |
| • Math Selection | _____ | _____ |
| • U.S. History | _____ | _____ |
| Senior | 1st Sem | 2nd Sem |
| • English IV | _____ | _____ |
| • U.S. Government | _____ | _____ |

24 Credits to Graduate

- 15.5 required credits (listed above)
- 8.5 general elective credits

Qualified Admissions Curriculum

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.

What are the Qualified Admissions standards?

To guarantee admission to the KBOR universities, students must meet the following requirements:

| ESU, FHSU, PSU, WSU | KSU | KU |
|--|--|--|
| ACT 21+ <u>or</u> cumulative GPA 2.25+ | ACT 21+ <u>or</u> cumulative GPA 3.25+ | Cumulative GPA 3.25+ <u>or</u> cumulative GPA 2.0+ <u>and</u> ACT 21+ |
| Kansas Scholars Curriculum is <u>recommended</u> but not required | Kansas Scholars Curriculum is <u>recommended</u> but not required | Kansas Scholars Curriculum is <u>recommended</u> but not required |
| Cumulative GPA 2.0 on any college courses taken while in high school | Cumulative GPA 2.0 on any college courses taken while in high school | Cumulative GPA 2.0 on any college courses taken while in high school |

What is superscoring?

Superscoring is the process of averaging your four best subject scores from all of your ACT test attempts.

How is the ACT Composite score different from an ACT superscore?

Your Composite score is the average of the four subject scores from one ACT test attempt. Your superscore is the average of your best scores from each subject from multiple test attempts. Your superscore is never lower than a single Composite score.

Does the writing score count toward a superscore?

No, the writing section score is not figured into a Composite score; therefore, it's not a component of a superscore. Just remember that some colleges require applicants to take the writing section.

What are the benefits of superscoring?

Your superscore combines your best performances into one score that best reflects your abilities and, ultimately, allows you to put your best foot forward. The higher your ACT score, the more competitive you are when it comes to getting admitted into college and securing merit-based scholarships.

Do all colleges superscore?

No, not all colleges superscore, but many do and the number is increasing. To find out if the college of your choice superscores the ACT, we recommend that you check out their test score use policy under admissions requirements on their website.

Kansas Scholars Curriculum

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.

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 State Financial Aid as provided by the Kansas Legislature. The academic profile of scholars usually includes an average ACT of 30 and an average GPA of 3.90. 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.

| Kansas Scholars Curriculum | |
|----------------------------|---|
| English | 4 units (same as Qualified Admissions Curriculum) |
| Natural Science | 3 approved units including: <ul style="list-style-type: none">• Biology• Chemistry• Physics <i>A fourth year of science is recommended.</i> |
| Math | 4 approved units Students must complete the following: <ul style="list-style-type: none">• Algebra I*• Geometry• Algebra II• In addition, students must complete at least one additional credit of advanced math. *Algebra taken in the 8 th Grade is accepted; however, 4 years of additional math must be completed. |
| Social Studies | 3 units (same as Qualified Admissions Curriculum) |
| World Language | 2 approved units of one world language |

For more information, contact the Kansas Board of Regents at www.kansasregents.org.

KBOR System Wide Transfer

There is a growing list of courses approved by the Kansas Board of Regents for guaranteed transfer among all Kansas public post-secondary institutions. From English Composition I & II and College Algebra to Public Speaking, a student who completes a course listed as a guaranteed transfer course at any Kansas public community college, technical college, or university can be certain that he or she can transfer that course to any other Kansas public institution in pursuit of a degree or credential. Visit https://kansasregents.org/transfer_articulation for a complete list of eligible courses.

Guidelines and requirements vary between schools, so be sure to research both schools' admission and transfer policies carefully. Contact the universities' Admission Office for assistance regarding questions about transfer of course credits.



Emporia State University

<https://ssb.emporia.edu/pls/prod/lmuhsythst.LMUTransHist>



Fort Hays State University

<https://www.fhsu.edu/registrar/transferring-courses-from-a-community-college/>



Kansas State University

<https://www.k-state.edu/admissions/undergrad/manhattan/apply/transfer/course-transfer.html>



Pittsburg State University

<https://www.pittstate.edu/registrar/transfer-equivalency-guidelines.html>



University of Kansas

<https://credittransfer.ku.edu/>



Wichita State University

<https://webapps.wichita.edu/TransferEquiv/>



Washburn University

https://tes.collegesource.com/publicview/TES_publicview01.aspx?rid=dd81f683-d67c-496a-b7a2-19d941b6f99b&aid=44ccf8a5-c9a1-4983-bc12-a748a1b9cef6

Credit Check At-A-Glance

LHS GRADUATION

24 credits required

ENGLISH (4 credits)

English I ___ ___

English II ___ ___

English III ___ ___

English IV ___ ___

MATHEMATICS (3 credits)

_____ ___ ___

_____ ___ ___

_____ ___ ___

SCIENCE (3 credits)

Biology ___ ___

_____ ___ ___

_____ ___ ___

SOCIAL SCIENCE (3 credits)

World History ___ ___

U.S History ___ ___

U.S. Government ___ ___

FINE ARTS (1 credit)

_____ ___ ___

Consumer Personal Finance

(1/2 credit) ___

P.E./Health (1 credit) ___ ___

ELECTIVES (8 credits)

QUALIFIED ADMISSIONS

ESU, FHSU, PSU, WSU

___ ACT 21+ **OR**

___ 2.25+ cumulative GPA

AND

___ 2.0 + cumulative GPA for college credit earned in high school

KSU

___ ACT 21+ **OR**

___ 3.25+ cumulative GPA **AND**

___ 2.0 + cumulative GPA for college credit earned in high school

KU

___ 3.25 cumulative GPA **OR**

___ 2.0+ cumulative GPA **AND** ACT 21+

KANSAS SCHOLARS CURRICULUM

16 credits required

ENGLISH (4 credits, one credit must be taken each year)

English I ___ ___

English II ___ ___

English III ___ ___

English IV ___ ___

**MATHEMATICS (4 credits)
Courses must be Algebra I or above.**

_____ ___ ___

_____ ___ ___

_____ ___ ___

_____ ___ ___

SCIENCE (3 credits)

Biology ___ ___

Chemistry ___ ___

Physics ___ ___

SOCIAL SCIENCE (3 credits)

World History ___ ___

U.S History ___ ___

U.S. Government ___ ___

FOREIGN LANGUAGE (2 credits)

_____ ___ ___

_____ ___ ___

LHS

Course Descriptions

AGRICULTURE

| | | |
|--------------------|---|--------------------|
| 18504 S1/S2 | <u>Natural Resources (9, 10, 11, 12)</u> Natural Resources Management courses combine the fields of ecology and conservation with planning for the efficient use and preservation of land, water, wildlife, and forests. Within the general area of natural resources management, these courses usually cover specific topics and uses, such as hunting or fishing preserves, forest production and management, wildlife preservation, and human outdoor recreation. | Not Offered |
| 18002 S1/S2 | <u>Agriscience (9, 10, 11, 12)</u> Agriculture—Comprehensive courses cover a wide range of agricultural topics, including plant and animal science, production, and processing; agricultural mechanics, including tool and machine operation and repair; construction and repair of farm structures; business operations and management; and the careers available in the agricultural industry. They may also include topics such as chemical and soil science, ecology, agricultural marketing, and veterinary science. | Year |
| 18203 S1/S2 | <u>Agricultural Leadership & Communication (10, 11, 12)</u> Agricultural Leadership courses help students develop leadership skills with a focus on opportunities in the food, fiber, and natural resources industries. Topics may include but are not limited to human relationships and effective communication, decision-making and problem-solving, leadership qualities and styles, and ensuring successful completion of group activities. PREREQUISITE: MUST HAVE PASSED ONE OR MORE AGRICULTURE COURSES | Not Offered |
| 18101 S1/S2 | <u>Animal Science (9, 10, 11, 12)</u> Animal Production/Science courses impart information about the care and management of domestic and farm animals. These courses may cover animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing, and marketing. Students may study a particular species (swine, cattle, horses, fowl, sheep, and so on), or they may learn how to care for and maintain livestock as a more inclusive study. | Year |
| 18103 S1/S2 | <u>Advance Animal Science (10, 11, 12)</u> Large Animal Care courses 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. Course topics may include product processing and marketing. PREREQUISITE: ANIMAL SCIENCE AND TEACHER APPROVAL | Not Offered |
| 18301 S1/S2 | <u>Plant and Animal Science (9, 10, 11, 12)</u> Agricultural Production courses combine content related to animal and plant production, providing comprehensive coverage of the production functions of the agricultural industry. These courses typically cover such topics as care and management of farm animals, crop production and harvesting, plant and animal insect and disease control, efficient resource management, and farm management. | Not Offered |

18058 S1/S2

Plant & Soil Science (9, 10, 11, 12)

Year

Courses expose students to the art and science of growing plants, shrubs, trees, flowers, fruits, agriculture crops and vegetables. In doing so, they cover a wide variety of topics, including greenhouse and nursery operations, soils & media mixtures, soil chemistry, fertility, mineralogy, hydrology, soil conservation, irrigation, fruit and vegetable production, turf/golf course management, interior and exterior plantscaping, irrigation systems, weed & pest control, & floral design.

BUSINESS/COMPUTERS

12050

Business Essentials (9, 10, 11, 12)

Not Offered

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

12104 S1/S2

Accounting (10, 11, 12)

Year

Accounting introduces and expands 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 may learn how to apply standard auditing principles and to prepare budgets and final reports. Calculators, electronic spreadsheets, or other automated tools are usually used. Advanced topics may include elementary principles of partnership and corporate accounting and the managerial uses of control systems and the accounting process.

331108 S1/S2

Advanced Accounting (11, 12)

Year

Advanced Accounting expands upon the fundamental accounting principles and procedures used in businesses. Course content typically includes the full accounting cycle, payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students learn how to apply standards auditing principles and to prepare budgets and final reports. Calculators, electronic spreadsheets, or other automated tools are usually used. 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.

PREREQUISITE: ACCOUNTING AND TEACHER APPROVAL

33110

Advanced Spreadsheet Applications (10, 11, 12)

Not Offered

Advanced Spreadsheet Applications allows students to develop knowledge and skills regarding the basic concepts of spreadsheets. Students will learn how to format cells, ranges, and worksheets, work with data, use basic and advanced formulas and functions,

create and modify charts, and insert pictures and shapes to a worksheet. (Technical Level Course)

- 12053** **Entrepreneurship (10, 11, 12)** **Not Offered**
Entrepreneurship acquaints students with the knowledge and skills necessary to own and operate their own businesses. Topics from several fields typically form the course content: economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting, and communication.
- 22210** **Consumer & Personal Finance (9, 10, 11, 12)** **1st & 2nd Semesters**
Consumer Economics/Personal Finance provides students with an understanding of the concepts and principles involved in managing one's personal finances. Topics may include savings and investing, credit, insurance, taxes and social security, spending patterns and budget planning, contracts, and consumer protection. This course may also provide an overview of the American economy.
- 30151 S1/S2** **Digital Media Design & Production (10, 11, 12)** **Not Offered**
Digital Media Design and Production will provide students with the opportunity to apply the fundamental techniques learned in the Digital Media Technology course through the production of a multi-media project for public presentation. Topics include developing a production schedule, working as a team, utilizing composition principles, and embedding audio, video or other content in digital formats.

FOREIGN LANGUAGE

- 06101 S1/S2** **Spanish I (9, 10, 11, 12)** **Year**
Designed to introduce students to Spanish language and culture, Spanish I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people.
- 06102 S1/S2** **Spanish II (10, 11, 12)** **Year**
Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s).
- 06103 S1/S2** **Spanish III (11, 12)** **Year**
Spanish III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the

language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

LANGUAGE ARTS

| | | |
|--------------------|---|--------------------------------|
| 01001 S1/S2 | English/Language Arts I (9, 10, 11, 12) English/Language Arts I (9th grade) courses build upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language use: reading, writing, speaking, and listening. Typically, these courses introduce and define various genres of literature, with writing exercises often linked to reading selections. | Year |
| 01002 S1/S2 | English/Language Arts II (10, 11, 12) English/Language Arts II (10th grade) courses usually offer a balanced focus on composition and literature. Typically, students learn about the alternate aims and audiences of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message. | Year |
| 01003 S1/S2 | English/Language Arts III (11, 12) English/Language Arts III (11th grade) courses continue to develop students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature, which often form the backbone of the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses. | Year |
| 01004 S1/S2 | English/Language Arts IV (12) English/Language Arts IV (12th grade) courses blend composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature, continuing to develop their language arts skills. Typically, students primarily write multi-paragraph essays, but they may also write one or more major research papers. | Year |
| 01102 | <u>Composition/Writing I (12) college course</u> Composition courses focus on students' writing skills and develop their ability to compose different types of papers for a range of purposes and audiences. These courses enable students to explore and practice descriptive, narrative, persuasive, or expository styles as they write paragraphs, essays, letters, applications, formal documented papers, or technical reports. Although composition courses may present some opportunities for creative writing, their focus usually remains on nonfiction, scholarly, or formal writing. PREREQUISITE: COLLEGE ENROLLMENT | 1st Semester |
| 01103 | <u>Composition/Writing II (12) college course</u> Composition courses focus on students' writing skills and develop their ability to compose different types of papers for a range of purposes and audiences. These courses enable | 2nd Semester |

students to explore and practice descriptive, narrative, persuasive, or expository styles as they write paragraphs, essays, letters, applications, formal documented papers, or technical reports. Although composition courses may present some opportunities for creative writing, their focus usually remains on nonfiction, scholarly, or formal writing.
PREREQUISITE: COLLEGE ENROLLMENT

51104 S1/S2

Creative Writing (9, 10, 11, 12)

Year

Creative Writing courses offer students the opportunity to develop and improve their technique and individual style in poetry, short story, drama, essays, and other forms of prose. The emphasis of the courses is on writing; however, students may study exemplary representations and authors to obtain a fuller appreciation of the form and craft. Although most creative writing classes cover several expressive forms, others concentrate exclusively on one particular form (such as poetry or playwriting).

01053 S1/S2

Literature (10, 11, 12)

Year

Literature courses offer the opportunity for students to study and reflect upon the themes presented in the body of literature being presented. Students improve their critical-thinking skills as they determine the underlying assumptions and values within the reading selection and as they understand how the work reflects society's problems and culture. Oral discussion is an integral part of literature courses, and written compositions are often required. Literature courses may survey representative works, reflect a particular genre or a specific theme, or survey works of a particular time or people.

01155 S1/S2

Communications (10, 11, 12)

Year

Communications courses focus on the application of written and oral communication skills through a variety of formal and informal experiences. During the Fall semester, the focus is on competing in Policy Debate at other nearby high schools. In the Spring semester, the focus shifts to competing in Forensics at some of those high schools. The courses are performance-based and emphasize effective interpersonal and team-building skills. Communications courses may also involve the study of how interpersonal communications are affected by stereotypes, nonverbal cues, vocabulary, and stylistic choices.

01151

Public Speaking (11, 12) college course

Not Offered

Public Speaking courses enable students, through practice, to develop communication skills that can be used in a variety of speaking situations (such as small and large group discussions, delivery of lectures or speeches in front of audiences, and so on). Course topics may include (but are not limited to) research and organization, writing for verbal delivery, stylistic choices, visual and presentation skills, analysis and critique, and development of self-confidence.

PREREQUISITE: COLLEGE ENROLLMENT

MATHEMATICS

| | | |
|--------------------|---|--------------------|
| 02053 S1/S2 | <u>Algebra I Part 1 (9, 10, 11, 12)</u> The first part in a multi-part sequence of Algebra I. This course covers the same topics as the first semester of Algebra I, including the study of properties of rational numbers (i.e., number theory), ratio, proportion, and estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first degree equations and inequalities. | Not Offered |
| 02054 S1/S2 | <u>Algebra I Part 2 (10, 11, 12)</u> The second part in a multi-part sequence of Algebra I. This course covers the same topics as the second semester of Algebra I, including the study of properties of the real number system and operations, evaluating rational algebraic expressions, solving and graphing first degree equations and inequalities, translating word problems into equations, operations with and factoring of polynomials, and solving simple quadratics. PREREQUISITE: ALGEBRA I PART 1 AND TEACHER APPROVAL | Not Offered |
| 02051 S1/S2 | <u>Pre-Algebra (9, 10, 11, 12)</u> Pre-Algebra courses increase students' foundational mathematics skills and prepare them for Algebra I by covering a variety of topics, such as properties of rational numbers (i.e., number theory), ratio, proportion, estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first-degree equations and inequalities. | Year |
| 02052 S1/S2 | <u>Algebra I (9, 10, 11, 12)</u> Algebra I includes the study of properties and operations of the real number system; evaluating algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic and exponential equations. | Year |
| 02072 S1/S2 | <u>Geometry (9, 10, 11, 12)</u> Geometry emphasizes an abstract, formal approach to the study of geometry, typically include topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles. PREREQUISITE: ALGEBRA I PART 1 & ALGEBRA I PART 2, ALGEBRA I, or Algebra I in 8 th Grade | Year |
| 02056 S1/S2 | <u>Algebra II (11, 12)</u> Algebra II course topics typically include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents, and solving and graphing exponential, logarithmic, and rational equations. PREREQUISITE: GEOMETRY | Year |

| | | |
|--------------------|---|--|
| 02151 S1/S2 | <u>Applied Math (11, 12)</u> General Applied Mathematics reinforces general mathematics skills; extend these skills to include some pre-algebra and algebra topics; and use these skills in a variety of practical, consumer, business, and occupational applications. Course topics typically include rational numbers, measurement, basic statistics, ratio and proportion, basic geometry, formulas, and simple equations. | Year |
| 02107 S1/S2 | <u>Trigonometry (11, 12)</u> Covering topics of both Trigonometry and Analytic Geometry, this course prepares students for eventual work in calculus. Topics typically include the study of right trigonometric and circular functions, inverses, and graphs; trigonometric identities and equations; solutions of right and oblique triangles; complex numbers; numerical tables; vectors; the polar coordinate system; equations and graphs of conic sections; rotations and transformations; polar and parametric equations. PREREQUISITE: ALGEBRA II | Year |
| 02121 S1/S2 | <u>Calculus (11, 12)</u> Calculus includes the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of pre-calculus topics (some combination of trigonometry, elementary functions, analytic geometry, and math analysis). PREREQUISITE: TRIGONOMETRY | Year |
| 02069 | <u>College Algebra (12) college course</u> College Algebra covers college-level algebra properties and theorems. PREREQUISITE: COLLEGE ENROLLMENT | 1st & 2nd Semesters |

FINE AND PERFORMING ARTS

| | | |
|--------------------|---|-------------|
| 05118 S1/S2 | <u>Music Appreciation (9, 10, 11, 12)</u> Similar in nature to Music History/Appreciation courses, Music Appreciation courses focus specifically on students' appreciation of music. They are designed to help students explore the world of music and to develop an understanding of the importance of music in their lives. | Year |
| 05101 S1/S2 | <u>General Band (9, 10, 11, 12)</u> General Band courses develop students' technique for playing brass, woodwind, and percussion instruments and cover a variety of nonspecified band literature styles (concert, marching, orchestral, and modern styles). ATTENDANCE AT ALL PERFORMANCES IS REQUIRED. | Year |
| 05108 S1/S2 | <u>Guitar (9, 10, 11, 12)</u> Guitar introduces students to the fundamentals of music and guitar-playing techniques, such as strumming and chords. This course may also include more advanced guitar-playing techniques. | Year |

| | | |
|--------------------|---|-------------|
| 55110 S1/S2 | <u>Chorus (9, 10, 11, 12)</u> | Year |
| | Chorus provides the opportunity to sing a variety of choral literature styles for men's and/or women's voices and is designed to develop vocal techniques and the ability to sing parts. | |
| 05053 S1/S2 | <u>Drama (9, 10, 11, 12)</u> | Year |
| | Drama is intended to help develop students' experience and skill in one or more aspects of theatrical production. Drama provides an overview of the features of drama such as acting, set design, stage management, and so on. Concentration on improving technique, expanding students' exposure to different types of theatrical techniques and traditions, and increasing their chances of participating in public productions is also relevant. | |

PHYSICAL EDUCATION

| | | |
|--------------------|--|--|
| 08001 S1/S2 | <u>Physical Education (9, 10, 11, 12)</u> | Year |
| | Physical Education courses provide students with knowledge, experience, and an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities. | |
| 08052 S1/S2 | <u>Physical Education/Health (9, 10, 11, 12)</u> | Year |
| | Health and Fitness courses combine the topics of Health Education courses (nutrition, stress management, substance abuse prevention, disease prevention, first aid, and so on) with an active fitness component (typically including aerobic activity and fitness circuits) with the intention of conveying the importance of life-long wellness habits. | |
| 08053 | <u>Health Education (9, 10, 11, 12)</u> | 1st & 2nd Semesters |
| | Topics covered within Health Education courses may vary widely, but typically include personal health (nutrition, mental health and stress management, drug/alcohol abuse prevention, disease prevention, and first aid) and consumer health issues. The courses may also include brief studies of environmental health, personal development, and/or community resources. | |
| 08009 S1/S2 | <u>Weight Training (9, 10, 11, 12)</u> | Year |
| | Weight Training courses help students develop knowledge and skills with free weights and universal stations while emphasizing safety and proper body positioning; they may include other components such as anatomy and conditioning. | |

SCIENCE

| | | |
|--------------------|---|-------------|
| 03051 S1/S2 | <u>Biology (9, 10, 11, 12)</u> | Year |
| | Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy. | |

| | | |
|--------------------|---|-------------|
| 03001 S1/S2 | <u>Earth Science (10, 11, 12)</u> | Year |
| | Earth Science courses offer insight into the environment on earth and the earth's environment in space. While presenting the concepts and principles essential to students' understanding of the dynamics and history of the earth, these courses usually explore oceanography, geology, astronomy, meteorology, and geography. | |
| | <u>PREREQUISITE: BIOLOGY</u> | |
| 03101 S1/S2 | <u>Chemistry (10, 11, 12)</u> | Year |
| | Chemistry involves studying the composition, properties, and reactions of substances. This course explores concepts such as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied. | |
| | <u>PREREQUISITE: ALGEBRA I AND BIOLOGY</u> | |
| 03102 S1/S2 | <u>Chemistry II (11, 12)</u> | Year |
| | Usually taken after a comprehensive initial study of chemistry, Chemistry II covers chemical properties and interactions in more detail. Advanced chemistry topics include organic chemistry, thermodynamics, electrochemistry, macromolecules, kinetic theory, and nuclear chemistry. | |
| | <u>PREREQUISITE: GEOMETRY AND CHEMISTRY</u> | |
| 03151 S1/S2 | <u>Physics (11, 12)</u> | Year |
| | Physics involves the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena. | |
| | <u>PREREQUISITE: ALGEBRA II</u> | |
| 03053 S1/S2 | <u>Anatomy and Physiology (11, 12)</u> | Year |
| | Usually taken after a comprehensive initial study of biology, Anatomy and Physiology courses present the human body and biological systems in more detail. In order to understand the structure of the human body and its functions, students learn anatomical terminology, study cells and tissues, explore functional systems (skeletal, muscular, circulatory, respiratory, digestive, reproductive, nervous, and so on), and may dissect mammals. | |

SOCIAL SCIENCE

| | | |
|--------------------|--|-------------|
| 04052 S1/S2 | <u>World History (10, 11, 12)</u> | Year |
| | World History provides an overview of world history and world geography. This course is often developed in response to increased national concern regarding the importance of geography, and they explore geographical concepts. | |

| | | |
|--------------------|---|--------------------------------|
| 04101 S1/S2 | <u>U.S. History (11, 12)</u> | Year |
| | U.S. History provides students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. This course includes a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement. | |
| 04151 S1/S2 | <u>U.S. Government (12)</u> | Year |
| | U.S. Government provides an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. This course may examine the structure and function of state and local governments and may cover certain economic and legal topics. | |
| 04064 S1/S2 | <u>Contemporary World Issues (9, 10, 11, 12)</u> | Year |
| | Contemporary World Issues enables students to study political, economic, and social issues facing the world. This course may focus on current issues, examine selected issues throughout the 20th century, and look at historical causes or possible solutions. | |
| 44001 | <u>Introduction to LPSS (10, 11, 12)</u> | Not Offered |
| | An introductory course designed to provide students with knowledge of occupations available in the Law, Public Safety and Security fields and introduce them to the legal system, professional conduct, safety, and types of crime. | |
| 43105 | <u>Government and Public Admin Fund. (10, 11, 12)</u> | 1st Semester |
| | This course will look at meeting the needs of the U.S. culture through positions within Government and Public Administration. Topics will include the role of government in providing services for the US population, the impact of the US on other nations as well as the impact of other nations on the US, and the professional traits required of those in this field. In addition, it will look at the problem solving and critical thinking processes, and leadership and teamwork practices. | |
| 44300 | <u>Practical Law (10, 11, 12)</u> | 2nd Semester |
| | This course will study the basic legal principles common to a broad base of everyday business activities and will provide practical law information necessary to develop problem-solving skills in our legal society. Topics include, but are not limited to, criminal law, juvenile law, torts, family law, discrimination, writing a brief and employee rights. | |

MISCELLANEOUS ELECTIVES

| | | |
|--------------------|--|--------------------|
| 30006 | <u>Intro to Drawing and Design (9, 10, 11, 12)</u> | Not Offered |
| | Introduction to Drawing and Design emphasizes the development of fundamental drawing skills for students learning graphic design. Focus will be on the application of art theory, processes and techniques that increase the power of observation. Instruction includes the elements and principles of design as applied in composition through hard copy and/or electronic software. | |
| 05154 S1/S2 | <u>Creative Art (9, 10, 11, 12)</u> | Year |
| | Creative Art provides students with the knowledge and opportunity to explore an art form and to create individual works of art. These courses may also provide a discussion and exploration of career opportunities in the art world. Initial courses cover the language, materials, and processes of a particular art form and the design elements and principles supporting a work of art. As students advance and become more adept, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic styles. Although Creative Art courses focus on creation, they may also include the study of major artists, art movements, and styles. | |
| 30102 | <u>Graphic Design Fundamentals (9, 10, 11, 12)</u> | Not Offered |
| | Graphic Design Fundamentals provides a basic understanding of the graphic design process. Topics include analyzing the design elements and principles, exploring industry tools, software and equipment and learning composition techniques to develop a quality product. | |
| 05162 S1/S2 | <u>Graphic Design (9, 10, 11, 12)</u> | Not Offered |
| | Graphic Design courses emphasize design elements and principles in the purposeful arrangement of images and text to communicate a message. They focus on creating art products such as advertisements, product designs, and identity symbols. Graphic Design courses may investigate the computer's influence on and role in creating contemporary designs and provide a cultural and historical study of master design works of different periods and styles. | |
| 19151 S1/S2 | <u>Teaching Profession (10, 11, 12)</u> | Not Offered |
| | Teaching Profession introduces students to the principles underlying teaching and learning, the responsibilities and duties of teachers, and the techniques of imparting knowledge and information. This course exposes students to, and trains them in, classroom management, student behavior, leadership and human relations skills, assessment of student progress, teaching strategies, and various career opportunities in the field of education. | |
| 11104 S1/S2 | <u>HS Publications (9, 10, 11, 12)</u> | Year |
| | Publication Production courses provide students with the knowledge and skills necessary to produce the school yearbook. Students may gain experience in several components (writing, editing, layout, production, and so on) or may focus on a single aspect while producing the publication. | |

30105

Photo Imaging (9, 10, 11, 12)

Not Offered

Photo Imaging teaches the technical skills needed to produce quality images for use in a variety of applications. Topics include the use of equipment, software, and techniques to take, edit and manipulate digital images.

Career Pathways at Lyndon High School

Career Pathways at LHS

Career and Technical Education (CTE) pathways allow students to be more prepared for their future. CTE can provide a student what is needed to succeed in their chosen career field: technical skills, academic skills, and employability skills. In addition, CTE coursework helps students attain the skills and knowledge necessary to meet the needs of future employers. Regardless of whether students are headed for college or the workforce, CTE courses will help them prepare for life after high school.

For a student to be deemed a “completer” of a pathway, the student must have completed a minimum of three secondary level credits in a single CTE pathway, with at least two of those credits being a combination of technical and application level courses. Lyndon High School pathway clusters and individual pathway charts including courses for each are listed below.

| Introductory Courses | Technical Courses | Application Courses |
|----------------------|-------------------|---------------------|
|----------------------|-------------------|---------------------|

| <u>Animal Science Pathway</u> | | |
|-------------------------------|---|--|
| Intro to Agriculture 1 credit | Agriscience 1 credit Animal Science 1 credit | Advance Animal Science 1 credit Internship in Ag 1 credit Agricultural Leadership 1 credit |

| <u>Natural Resources & Environmental Systems Pathway</u> | | |
|--|--|---|
| Intro to Agriculture 1 credit | Agriscience 1 credit Animal Science 1 credit Environmental Resources & Wildlife 1 credit | Internship in Ag 1 credit Agricultural Leadership 1 credit |

| <u>Comprehensive Agriculture Science Pathway</u> | | |
|--|---|--|
| Intro to Agriculture 1 credit | Agriscience 1 credit Horticulture 1 credit Plant & Soil Science 1 credit Animal Science 1 credit Ag. Food Science 1 credit Natural Resources 1 credit Plant & Animal Science 1 credit | Internship in Ag 1 credit Ad. Plant & Animal Science 1 credit Agricultural Leadership & Comm. 1 credit |

| <u>Health Science Pathway</u> | | |
|--|-------------------------------|---|
| Intro to Health Care .5 credit Biology 1 credit Chemistry 1 credit | Anatomy & Physiology 1 credit | Home Health Care .5 credit Certified Nurse Aide .5 credit Certified Medication Aide .5 credit Phlebotomy .5 credit |

| <u>Digital Media Pathway</u> | | |
|---|---|---|
| Business Essentials .5 credit Computer Applications 1 credit | 21 st Century Journalism .5 credit Audio/Video Prod. Fund. .5 credit Digital Media Technology .5 credit Photo Imaging .5 credit Media and Public Relations .5 credit Graphic Design Fundamentals .5 credit Commercial Graphic Design 1 credit Graphic Design 1 credit | Video Production 1 credit Digital Media Design & Production 1 credit |

| <u>Web & Digital Communications Pathway</u> | | |
|---|--|---|
| Computer Applications 1 credit | Web Page Design .5 credit Computer Graphics 1 credit Graphic Design 1 credit | Web and Digital Communications 1 credit |

| <u>Graphic Design Pathway</u> | | |
|---|---|---------------------------|
| Computer Applications 1 credit Intro to Drawing and Design .5 credit | Graphic Design Fundamentals .5 credit Photo Imaging .5 credit Computer Graphics 1 credit Graphic Design 1 credit Commercial Graphic Design 1 credit | Media Technology 1 credit |

| <u>Business Finance Pathway</u> | | | |
|--|-----------|-----------------------------------|-----------|
| Business Essentials | .5 credit | Business Essentials | .5 credit |
| | | Entrepreneurship | .5 credit |
| | | Business Economics | .5 credit |
| | | Consumer & Personal Finance | .5 credit |
| | | Business Law | .5 credit |
| | | Business Communications | .5 credit |
| | | Advanced Spreadsheet Applications | .5 credit |
| | | Accounting | 1 credit |
| | | Advanced Accounting | 1 credit |

| <u>Corrections, Security, Law & Law Enforcement Pathway</u> | | | |
|--|-----------|-------------------------|-----------|
| Introduction to LPSS | .5 credit | Practical law | .5 credit |
| | | Business Law | .5 credit |
| | | Business Economics | .5 credit |
| | | Business Management | .5 credit |
| | | Business Communications | .5 credit |
| | | Accounting | 1 credit |
| | | Foundations in Law | 1 credit |
| | | Youth Court | 1 credit |

| <u>Government and Public Administration Pathway</u> | | | |
|--|-----------|-----------------------------------|-----------|
| Intro to Govt and Public Admin | .5 credit | Business Law | .5 credit |
| Career and Life Planning | .5 credit | Practical law | .5 credit |
| | | Government and Public Admin Fund. | .5 credit |
| | | Business Economics | .5 credit |
| | | Business Management | .5 credit |
| | | Accounting | 1 credit |
| | | Foundations in Law | 1 credit |
| | | Youth Court | 1 credit |

| <u>Energy Pathway</u> | | | |
|------------------------------|-----------|--|----------|
| Environmental Science | .5 credit | Energy, Power and Society | 1 credit |
| Intro to Energy | .5 credit | Wind Energy Operations | 1 credit |
| | | Fund. of Electricity and Electronics | 1 credit |
| | | Principles of Applied Engineering | 1 credit |
| | | Energy Industry Fundamentals | 1 credit |
| | | Research & Dev. for Energy Comprehensive | 1 credit |

| <u>Teaching/Training Pathway</u> | | | |
|---|-----------|----------------------------|-----------|
| Career and Life Planning | .5 credit | Human Growth & Development | .5 credit |
| | | Teaching Observation | .5 credit |
| | | Teaching Profession | 1 credit |
| | | Teaching Internship | 1 credit |

ACC Excel in CTE Online Opportunities



The Allen Career and Technical Education Program provides high school students the opportunity to complete career and technical education coursework and receive a CTE tuition credit for the cost of tuition, fees, and book rental (Excel in CTE). Students taking online coursework also receive a credit for technology fees. Students are responsible for any purchase books, supplies, and certification testing fees. Career and Technical Education courses help students develop skills and knowledge for a variety of career fields. Students may also take exploratory coursework to gain insight into possible employment fields to assist with future career planning. For each course below, you will find the course number, course name, number of credit hours, and semester offered. **This list of courses is subject to change based on changes made to Excel in CTE/KBOR funding and courses.**

2021-2022 Tentative Career and Technical Education Online Learning Course Schedule

Agriculture:

| | | | |
|---------|-----------------------------------|----------------|-------------|
| AGR101A | Field Studies | 1 credit hour | FALL/SPRING |
| AGR103 | Principles of Animal Science | 3 credit hours | FALL/SPRING |
| AGR105 | Introduction to Equine Science | 3 credit hours | SPRING |
| AGR106 | Livestock Evaluation | 1 credit hour | FALL |
| AGR201 | Animal Science and Industry | 1 credit hour | FALL/SPRING |
| AGR202 | Advanced Livestock Selection | 2 credit hours | SPRING |
| *AGR203 | Fundamentals of Animal Nutrition | 3 credit hours | SPRING |
| AGR206 | Farm Management | 3 credit hours | FALL/SPRING |
| AGR207 | Marketing of Agriculture Product | 3 credit hours | SPRING |
| AGR214 | Crop Science | 4 credit hours | SPRING |
| AGR216 | Agriculture Technology Management | 3 credit hours | FALL |
| *AGR224 | Soil Science | 4 credit hours | SPRING |
| AGR251 | Agriculture Chemicals | 2 credit hours | SPRING |

- Related career fields include farm and ranch production management, livestock and grain production
- Suggested starter courses: AGR103, 201, and AGR206
- Allen has a 16 credit hour certificate program in Livestock Management.

*Course has pre-requisites

Business:

| | | | |
|---------|--------------------------|----------------|---------------|
| BUS120 | Introduction to Business | 3 credit hours | EVERY |
| BUS171 | Internship in Business I | 1 credit hour | FALL |
| BUS210 | Financial Accounting | 3 credit hours | EVERY |
| *BUS212 | Managerial Accounting | 3 credit hours | EVERY |
| BUS221 | Business Law I | 3 credit hours | FALL |
| BUS275 | Principles of Management | 3 credit hours | SPRING/SUMMER |
| BUS278 | Marketing | 3 credit hours | FALL |
| BUS279 | Advertising | 3 credit hours | SPRING |

- Related career fields include business management, sales, marketing, accounting, and financial services
- Suggested starter courses: BUS120, BUS210, BUS275, or BUS278

*Course has pre-requisites

Criminal Justice:

| | | | |
|--------|---|----------------|-------------|
| CJS101 | Law Enforcement Operations and Procedures | 3 credit hours | SPRING |
| CJS171 | Internship in Criminal Justice I | 1 credit hour | FALL/SPRING |
| CJS202 | Criminal Justice Interview and Report Writing | 3 credit hours | SPRING |
| CJS220 | Agency Administration | 3 credit hours | FALL |
| CJS240 | Criminal Investigation | 3 credit hours | FALL |
| CJS251 | Criminal Procedures | 3 credit hours | SPRING |
| CJS271 | Internship in Criminal Justice II | 2 credit hours | SPRING |

- Related career fields include law enforcement, corrections, human services, private security
- Suggested starter courses: CJS101, CJS102, or CJS240
- Allen has a 36 credit hour certificate program in Law Enforcement.

Information Technology:

| | | | |
|---------|--------------------------------------|----------------|-------------|
| CIS106 | Intro to Python Programming | 3 credit hours | FALL/SPRING |
| CIS109 | Intro to Computer Programming | 3 credit hours | EVERY |
| CIS110 | Cybersecurity Essentials | 3 credit hours | FALL |
| CIS113 | Linux Essentials | 3 credit hours | FALL |
| CIS115 | Visual Basic I | 3 credit hours | SPRING |
| CIS125 | CISCO Network Basics | 3 credit hours | FALL |
| CIS135 | Computer Repair—Core Hardware | 3 credit hours | FALL |
| *CIS215 | Ethical Hacking | 3 credit hours | SPRING |
| CIS230 | C++ Programming I | 3 credit hours | FALL |
| CIS241 | Computer Network + | 3 credit hours | FALL |
| *CIS242 | Network Security + | 3 credit hours | SPRING |
| *CIS250 | Cisco Routing and Switching | 3 credit hours | SPRING |
| CIS275 | Computer Repair—Operating Systems | 3 credit hours | SPRING |
| PRO116 | Raster Graphics I: Photoshop | 3 credit hours | EVERY |
| PRO125 | Vector Graphics Illustrator | 3 credit hours | SPRING |
| POR126 | Typography | 3 credit hours | SPRING |
| PRO131 | Graphic Design I | 3 credit hours | FALL |
| PRO155 | Web Design: HTML/Javascript | 3 credit hours | SPRING |
| PRO200 | Web & Motion Graphics: Adobe Animate | 3 credit hours | SPRING |
| PRO201 | Website Design: Dreamweaver | 3 credit hours | SPRING |
| *PRO225 | Raster Graphics II: Photoshop | 3 credit hours | SPRING |
| *PRO231 | Graphic Design II | 3 credit hours | SPRING |
| PRO251 | Web Design: Adobe Suite | 3 credit hours | EVERY |

- Related career fields include IT management and support, software development, business
- Suggested starter courses: CIS135, PRO116 or CIS113
- Allen has an 18 hour program in Computer & Network Support Technician.
- Earn a credential after passing CIS113, CIS125, CIS250, CIS241, and CIS242 and a third party exam

*Course has pre-requisites

Early Childhood Education:

| | | | |
|---------|---|----------------|-------------|
| ECE102 | Principles of Early Childhood Education | 3 credit hours | FALL/SPRING |
| ECE103 | Child Health, Safety, and Nutrition | 3 credit hours | FALL/SPRING |
| ECE104 | Creative Experiences for Young Children | 3 credit hours | ROTATING |
| ECE105 | Observation and Interacting with Young Children | 3 credit hours | FALL/SPRING |
| ECE107 | Child Play & Games | 3 credit hours | ROTATING |
| ECE201 | Infant and Toddler Education and Care | 3 credit hours | SPRING |
| ECE202 | Preschool Education and Care | 3 credit hours | FALL |
| *ECE204 | Developing Language and Literacy in Early Childhood | 3 credit hours | |

| | | | |
|----------------|---|-------------------------|------|
| | SPRING ECE207 | Early Childhood Program | |
| Administration | 3 credit hours | SPRING | |
| ECE211 | Best Practices in Inclusion and Diversity | 3 credit hours | FALL |
| *ECE215A-217 | Practicum in Early Childhood Education | 1 credit hour | |
| | FALL/S | | |

- Related career fields include Kd3 teacher, pre-school teacher, paraprofessional, day care
- Suggested starter courses: ECE102 or ECE103
- Allen has a 16 credit hour certificate program in Early Childhood Education

*Course has pre-requisites

Allied Health:

| | | | |
|---------------|--|-----------------------|---------------|
| MED102 | Certified Nurse Aide | 5 Credit Hours | EVERY |
| *MED103 | Medication Aide | 5 Credit Hours | EVERY |
| MED120 | Medical Terminology | 3 credit hours | EVERY |
| NHA129 | Medical Insurance Coding & Billing | 3 credit hours | SPRING |
| NHA160 | Social Services Designee/Activities Director | 5 credit hours | |
| | FALL/SPRING | | |
| NHA161 | Medical Administrative Aspects | 4 credit hours | SPRING |
| NHA235 | Long Term Care Medical Records | 3 credit hours | FALL |
| NHA236 | Legal Concepts | 3 credit hours | SPRING |
| NHA237 | Introduction to Pharmacy Technician | 3 credit hours | EVERY |
| NHA238 | Pharmacology for Health Professionals | 3 credit hours | FALL |
| NHA239 | Medical Office Accounting | 3 credit hours | FALL |
| NHA240 | Pharmacy Calculations | 3 credit hours | FALL |
| NHA260 | Pharmacy Operations | 3 credit hours | FALL |
| *NHA261 | Advanced Pharmacy Operations | 3 credit hours | SPRING |

- Related career fields include: nurse aide, nursing, pharmacy technician, medical office work
- Suggested starter courses: MED102, MED120, NHA236, NHA237, or NHA238
- Earn a credential after each of the following courses and State certification exams: MED102 and NHA160
- Allen has a 32 credit hour certificate in Health Care Specialist.
- Allen has a 31 credit hour certificate in Pharmacy Technician.
- Allen has a 34 credit hour certificate in Adult Care Home Administration.

*Course has pre-requisites

Book or software purchase required

Flint Hills Technical College

Automotive Technology (11,12)

Led by ASE-certified instructors, the Automotive Technology program provides interactive, hands-on instruction on state-of-the-art automotive service repair techniques. Real-life working conditions and equipment prepare students for employment as automotive technicians at dealerships or independent repair shops. Students spend 80 percent of their instruction time in the lab.

Program Options

Automotive Technology offers an associate of applied science degree and a technical certificate option. High school seniors and juniors are also eligible to apply to this program.

The technical certificate is a one-year program. Graduates will have the knowledge and skills needed to apply theoretical concepts and perform diagnostic and repair procedures. For graduates opting to continue their education, these courses are transferable to the Automotive Technology AAS degree program.

The associate of applied science degree is a two-year program that contains technical and general education courses. Graduates will be prepared for a wide variety of careers or may choose to continue their education through our academic partnership with Pittsburg State.

Career Opportunities

Automotive Technicians diagnose and repair a wide range of vehicles including passenger cars and light trucks, SUVs and, four-wheel drive vehicles. The automotive industry is high-tech, with state-of-the-art computers being used to control all major automotive systems.

Career opportunities include:

- Car Dealership Technician
- Automotive Service Industries
- Service Manager
- Retail Auto Parts
- Automotive Parts Sales

Academic Partnership

Pittsburg State University

- The Bachelor of Applied Science degree from Pittsburg State University offers Automotive Technology students who have graduated from Flint Hills Technical College the opportunity to extend their education and training to pursue a corporate career track. Students earning the BAS degree complete a major in technology with a selected emphasis through the Department of Automotive Technologies in the College of Technology.

Business Technology (11,12)

Individuals with skills in office management, business software, accounting, and marketing are in demand in organizations both large and small. Students earning a Business Technology degree will gain a broad knowledge base to become leaders within an office setting, or to start their own business. FHTC also offers internships opportunities with local companies and has an active Phi Beta Lambda (PBL) Chapter on campus.

Program Options

Business Technology offers a technical certificate and associate of applied science degree option. Courses are available either face-to-face or online and include an internship. High school seniors and juniors are also eligible to apply to this program.

The technical certificate is a one-year program. Graduates will have the knowledge and skills to perform numerous office activities including computer applications, database management, and business communication. For graduates wanting to continue their education, certificate courses apply to the AAS degree program.

The associate of applied science degree is a two-year program that encompasses management, entrepreneurship, business law and general education courses. Students also have an opportunity to complete additional internships and obtain advanced training in computer applications. Both the one and two-year options are available completely online and many courses will transfer to four-year institutions.

Career Opportunities

Within companies, there is need for multifaceted individuals with the variety of competencies in office management including marketing, computer applications, and human relations knowledge, as well as have analytical thinking skills that contribute to the effectiveness of their organization.

Career opportunities include:

- Executive Assistant
- Office Manager
- Marketing Specialist
- Legal Assistant
- Financial Assistant
- Payroll Clerk

Academic Partnership

Emporia State University

- FHTC students who complete an Associate of Applied Science degree in Business Technology will be able to transition into Emporia State University's Bachelor of Science program in either Business Administration or Business Education.

Computer Program Design & Development (11,12)

Computer programmers are the builders and problem solvers of the 21st century. With technology integrated into nearly every aspect of daily life, hands-on training in Computer Program Design and Development prepares students for a fast-paced, high-demand career that focuses on design, programming languages, troubleshooting and repair using the latest technology and software.

Program Options

Computer Program Design and Development offers an associate of applied science degree option. Courses are available face-to-face or mostly online. High school seniors and juniors are also eligible to apply to this program.

The associate of applied science degree is a two-year program that contains technical and general education courses. Graduates will have the knowledge and skills needed to identify operational problems and design solutions using programming languages and productivity software. Graduates will also be able to troubleshoot, repair, maintain and support computer hardware in accordance with business and industry standards.

Career Opportunities

Computer programmers design all program, application, and operating systems software. These three types of software are used by virtually everyone involved with computers. Computer programmers are in high demand, and those with strong skills in C#, Visual Basic, Access, SQL, Java, HTML5, CSS3, JQuery and Program Logic and Design, PC Servicing & Troubleshooting, Digital Electronics, Network Concepts, Game Design, Web Design are earning excellent pay and benefits.

Career opportunities include:

- Educational Institutions
- Internet, E-Commerce and Web Page Design
- Data Processing Services
- Telecommunications
- Gaming Industry

Computerized Machine Tool Engineering (11,12)

From space shuttles to plastic products, machine tool technicians play a vital role in the design, fabrication and manufacturing of quality parts. Graduates of the Computerized Machine Tool Engineering program are prepared for a highly-skilled job working with special inspection tools and manufacturing equipment in a reliable industry.

Program Options

Computerized Machine Tool Engineering offers a technical certificate and associate of applied science degree option. High school seniors and juniors are also eligible to apply to this program.

The technical certificate is a one-year program. Graduates will possess the knowledge and skills needed to program, tool and operate CNC (Computer Numerically Controlled) mills and lathes. For graduates wanting to continue their education, certificate courses satisfy many of the requirements of the Computerized Machine Tool Engineering AAS degree program.

The associate of applied science degree is an accelerated one-and-a-half-year program that contains technical and general education courses. The Associate of Applied Science degree contains technical and general education courses and can be completed with one additional semester of training. The advanced technical portion of this course is taught in the summer. Graduates will possess the knowledge and skills needed to program, tool and operate CNC (Computer Numerically Controlled) mills and lathes, as well as the ability to draw and program in Mastercam.

Career Opportunities

Machinists design and fabricate parts used in a wide array of products varying from the space shuttle to airplanes, vehicles, and all of the injection molds used to make plastic products. Machine Tool technicians work with special inspection tools and manufacturing equipment, including computer numerical controlled lathes, computer numerical controlled mills, live tooling numerical controlled lathes, computer-aided machine development (CAM), manual mills, manual lathes and CMM inspection equipment.

Career opportunities include:

- Automobile and aircraft manufacturers
- Maintenance and repair shops
- Manufacturing of all metal goods and plastic injection mold manufactures

Academic Partnership

Washburn University

- FHTC students who have graduated from the Computerized Machine Tool Engineering program may pursue The Bachelor of Applied Science degree from Washburn University to extend their education and training. Students earning the BAS degree complete a major in Technology Administration.

Dental Assisting (12)

Dental Assistants are an important part of the dental office team and provide support during examinations and procedures. Our Dental Assisting program offers interactive training focusing on dental concepts and practices, chair-side assisting, radiography, office management and real-world internship experience.

Program Options

Dental Assisting offers a technical certificate and associate of applied science degree option. High school seniors are also eligible to apply to this program to take several courses. Upon successful completion of the courses, students may apply and be accepted to the program under advanced standing eligibility.

The technical certificate is a one-year program. Graduates will have the knowledge and skills (chairside functions and management) necessary for entry-level employment in dental offices. Certificate courses also fulfill many of the requirements of the Dental Assisting AAS degree program.

The associate of applied science degree is a two-year program that contains technical and general education courses. Planned and supervised experiences—classroom, laboratory, clinical internship—help students develop the knowledge and skills needed to perform procedures with precision, safety and efficiency consistent with proven dental concepts and practices.

Students admitted to the FHTC Dental Programs are subject to contact with blood and/or body fluids. FHTC Dental Programs follow all OSHA Bloodborne Pathogen, Exposure Control Guidelines, and the Universal and Standard precautions throughout the pre-clinical, lab and clinical experiences.

Application Deadline

The application deadline for Fall 2021 is April 10, 2021, with a completed application file by April 30, 2021. Interviews for qualifying candidates will begin in May 2021.

Career Opportunities

Dental Assistants are an integral part of the dental team within a dental practice. There are nine specialties, as well as general practitioners, within the scope of the dental profession. Allied health care workers are in high demand and this field is expected to continue to grow. Those who complete the Dental Assisting program can sit for the DANB (Dental Assisting National Board) Exam which is recognized across the nation.

Career opportunities include:

- Dental Offices
- Specialty Offices
- Dental Labs
- Dental Sales Representatives

Emergency Medical Technician (Hybrid) (11,12)

Discover a fast-paced career as you learn to provide services in the uncontrolled, pre-hospital environment that includes patient stabilization, basic and advanced life support, and safe transport to the appropriate healthcare facility. The Emergency Medical Technician (EMT) course will provide you with opportunities to gain information, skills, and attitudes necessary for certification and practice as an EMT.

Program Options

- EMT courses are available online with skills testing completed in a face-to-face setting.
- 28-week course
- State certification exam upon successful course completion

Emergency Services Technology (12)

Emergency services providers function in the uncontrolled, pre-hospital environment that includes patient stabilization, basic and advanced life support, and safe transport to the appropriate healthcare facility. Students in the EST program are prepared for these intense situations, through hands-on, real-world experience with EMR and EMT/AEMT certification.

Program Options

Emergency Services Technology offers two technical certificates and an associate of applied science degree option. High school seniors are also eligible to apply to this program.

Technical Certificate A is an 18-credit hour program. Students will receive the knowledge needed to complete the First Responder (EMR) and Emergency Medical Technician (EMT) certification. Graduates seeking to continue their education can transfer certificate courses to the Emergency Services Technology AAS degree program.

Technical Certificate B is a 33-credit hour program. In addition to receiving EMR and EMT training, students will take additional basic medical classes as well as First Aid CPR and communication courses. Graduates seeking to continue their education can transfer certificate courses to the Emergency Services Technology AAS degree program.

The associate of applied science degree combines general education and technical education courses. Graduates will receive the knowledge needed to complete First Responder (EMR), Emergency Medical Technician (EMT) and Advanced Emergency Medical Technician (AEMT) certification. Students will also have the opportunity for an AEMT field Internship. Graduates will be prepared for both entry-level and advanced training positions in emergency services fields.

Career Opportunities

Emergency Services provide medical care for all, from infant to elderly. The Emergency Services field involves intense teamwork with many disciplines, specifically ambulance, fire, and police departments, as well as hospitals.

Career opportunities include:

- First Responder
- Ambulance Crew
- Emergency Room
- Patient Care Technician

Graphic Arts Technology (11,12)

Graphic artists are in the business of visual communication. Whether traditional printing or web, graphic artists use the most current technology and advanced communications tools to produce ideas, images and convey information. Students will learn to apply graphic art concepts, formulas as well as operational procedures and production principles, preparing for a creative and versatile career.

Program Options

Graphic Arts Technology offers a technical certificate and associate of applied science degree option. High school seniors and juniors are also eligible to apply to this program.

The technical certificate is a one-year program. Graduates will have an understanding and skills to apply graphic art concepts, formulas, operational procedures and production principles in accordance with industry standards. These experiences prepare graduates for entry-level positions in the graphic arts industry. Graduates seeking to continue their education can transfer certificate courses to the Graphic Arts Technology AAS degree program.

The associate of applied science degree is a two-year program that contains technical and general education courses. Graduates will expand their knowledge of graphic art concepts, including photography, and production processes.

Career Opportunities

The Graphic Arts industry comprises a broad range of visual expressions including design of print materials and digital media. Students will also learn pre and post-production procedures and have hands-on experiences in the production of digital, screen printing, and wide format printing.

Career opportunities include:

- Commercial Printing
- Magazine & Book Publishing
- Screen Printers
- Advertising Agency
- Specialty Printers
- In-house Graphics

Academic Partnerships

Kansas State University

- FHTC students who complete an Associate of Applied Science degree in Graphic Arts Technology may transition into Kansas State University's Bachelor of Arts in Printmaking.

Pittsburg State University

- FHTC students who complete an Associate of Applied Science degree in Graphic Arts Technology may pursue a Bachelor of Applied Science degree from Pittsburg State University. Students earning the BAS degree complete a major in technology with a selected emphasis through the Department of Graphics and Imaging Technologies in the College of Technology.

Health Occupations Technology (11,12)

Explore career possibilities in healthcare with the one-year Health Occupations Technology program. Graduates receiving their technical certificate will be prepared for full-time college health programs and will have received training for employment opportunities. Students participate in interactive experiences directed toward performing health-related measures with precision, safety and efficiency consistent with fundamental health concepts and practices.

Program Options

Health Occupation Technology offers a one-year technical certificate option. High school seniors and juniors are also eligible to apply to this program.

Through a variety of introductory courses, students are prepared for full-time college health programs and receive training for career focused employment opportunities. Students participate in planned and supervised experiences directed toward performing health-related measures with precision, safety and efficiency consistent with fundamental health concepts and practices. Clinical practice is correlated with basic therapeutic knowledge and skills needed for employment.

Career Opportunities

Health Occupations Technology prepares graduates for employment as a Certified Nurse Aide (CNA), Home Health Aide, and Restorative Aide. The Certified Nurse Aide (CNA) provides assistance to licensed practical nurses, registered nurses, practitioners, and physicians, and work with patients across the lifespan, from newborn to geriatrics. The Home Health Aide works closely with families under the supervision of an RN to provide care in the client's home. The Restorative Aide provides assistance in long-term care facilities to enable residents to maintain and improve their health status.

Career opportunities include:

- Long-term care facilities
- Hospitals
- Home health agencies
- Health departments
- Physicians' offices
- Detail representatives for medical equipment

Hospitality Dietary Management (12)

The Hospitality Dietary Management program provides students the knowledge and management skills needed to plan and implement nutritional food menus with accommodations for allergens and special diets. Students will learn culinary skills and procedures, kitchen management, along with an understanding of nutrition and health. This combination will enable students to have a rewarding career in a variety of foodservice settings.

Program Options

The Hospitality Dietary Management program offers a technical certificate option. High school seniors are also eligible to apply to this program.

The technical certificate is a one-year program. Graduates will gain basic culinary skills as well as healthcare knowledge in nutrition, growth and development, gerontology nursing, and healthcare management. Students will also learn kitchen management, practice sanitation and safety, purchasing and cost controls. A hands-on internship is a requirement of the program. Upon graduation, students will be prepared to take the national exam for Certified Dietary Manager.

Career Opportunities

A career in Hospitality Dietary Management allows for foodservice management positions across many industries and institutions.

Career opportunities include:

- Hospitals
- Hotels
- Spas
- Retirement communities
- Long-term care facilities
- Educational institutions

Hospitality/Culinary Arts (12)

The Hospitality/Culinary Arts major is a unique program that combines culinary and baking arts as well as hospitality management. Students will have real-world catering experiences and the opportunity to utilize the Fusion Food Truck, the only food truck curriculum in Kansas. This program teaches the skills needed to become entrepreneurs in the food industry.

Program Options

Hospitality/Culinary Arts offers a technical certificate and associate of applied science degree option. High school seniors are also eligible to apply to this program.

The technical certificate is a one-year program. Graduates will be able to prepare and serve cuisine found in fine dining establishments, practice sanitation and safety, and efficiently utilize equipment, supplies and manage personnel. Certificate courses are transferable to the AAS degree program.

The associate of applied science degree is a two-year program that contains technical and general education courses. Graduates will be able to apply the principles of supervision and human resource management including employee recruitment, selection, orientation, productivity and labor controls. Graduates will also have the knowledge to exert a higher level of control over the cooking process, prepare American and international cuisine and learn the elements of garde manger, baking, pastries and confections. Knowledge and application will provide inventory control and monitor the cost/volume/profit relationship in the foodservice industry. These skills are acquired through real-life experiences in the classroom, catering of banquets and special events.

Career Opportunities

Culinary perfection is about a basic love for food and the desire to please people. A career in Culinary Arts involves dedication, hard work, education, and talent. This field of study is part of the Hospitality Industry, which is the largest private employer in the United States. Opportunities exist in roles of cook, baker, chef, caterer, food and beverage managers, owners of restaurants and countless other areas.

Career opportunities include:

- Resort & Cruise Ships
- Convention Centers
- Entrepreneurship
- Corporate Food Service
- Restaurant Management

Academic Partnership

Kansas State University

- FHTC students who have completed an Associate of Applied Science degree at FHTC in Hospitality/Culinary Arts will be able to apply to transition into Kansas State University's Bachelor of Science in Hospitality Management program.

Industrial Engineering Technology (11,12)

Training in the Industrial Engineering Technology programs opens doors for a variety of careers working with mechanical systems, electrical circuits, electric motors and motor controls, hydraulic and pneumatic systems, and industrial automation. Students will also have the opportunity to earn OSHA 10 certification all while learning in a high-tech, hands-on environment.

Program Options

Industrial Engineering Technology offers a technical certificate and associate of applied science degree option. Several IET classes are offered in a hybrid online format. High school seniors and juniors are also eligible to apply to this program.

The technical certificate is a one-year program. Students will learn the basics of industrial and residential wiring, motor controls, industrial mechanical principles as well as hydraulics and pneumatics.

The associate of applied science degree is a two-year program that contains technical and general education courses. Graduates will have the knowledge and skills needed to install, service and repair machines and equipment common to all industries and the opportunity to achieve the OSHA 10 General Industry certification.

Career Opportunities

FHTC Industrial Engineering Technology students have been successfully placed and have gained the reputation as model employees in regional companies including Thermal Ceramics, Kansa Corp, Modern Air Conditioning, Services Unlimited, Shelly Electric, Schumann Electric, Stouse, Altec, Camoplast, Simmons Pet Food, American Eagle and numerous school and university maintenance departments.

Career opportunities include:

- Power Plants
- Manufacturing Facilities
- Educational Facilities
- Industrial Service
- Maintenance Consulting
- Residential Service

Multimedia Design (11,12)

The Multimedia Design program allows students to be creative while perfecting their technical skills in video production, animation, web content, instructional design, and the production workflow process. All classes provide students hands-on experience while creating multimedia projects, by completing pre-production, production and post-production tasks.

Program Options

Multimedia Design offers a technical certificate and associate of applied science degree option. Courses are available face- to-face or mostly online. High school seniors and juniors are also eligible to apply to this program.

The technical certificate is a one-year program. The courses provide students with a foundation in multimedia development fundamentals including animation, video productions and creation of digital graphics for a variety of purposes.

The associate of applied science degree is a two-year program that offers students a wide variety of training in various areas of producing interactive digital content including video production, animation, content for the internet and digital media for electronic devices/platforms. Students completing the program will gain cross-platform skills and a complete understanding of the production pipeline (workflow process) including digital video production, interactive presentations and media for multiple formats/devices and content for the web.

Career Opportunities

Small businesses to large corporations often hire multimedia experts to develop content for marketing or training purposes and jobs in educational institutions include instructional design and developing training and marketing content.

Governmental agencies also employ multimedia specialists to create presentations and promotional materials. Television and radio stations also provide employment opportunities. Whether your interests focus on digital video production, animation, motion graphics, instructional design, or web content, the employment opportunities are endless.

Career opportunities include:

- Regional Media Industry
- Education
- Government
- Freelance Work
- Non-Profit Organizations

Academic Partnership

Emporia State University

- FHTC students who complete an Associate of Applied Science degree in Multimedia Design may transition to Emporia State University to complete a bachelor's degree in Communication.

Network Technology (11,12)

A degree in Network Technology prepares students for a career in a dynamic and high-demand industry. Through hands-on training, students develop skills to build, install, maintain and repair computers and the computer networks to which they are attached.

Program Options

Network Technology offers an associate of applied science degree option. High school seniors and juniors are also eligible to apply to this program.

The Network Technology associate of applied science degree is a two-year program that contains technical and general education courses. Graduates will develop the professional knowledge and skills needed to establish, maintain, manage and secure computer networks and provide computer user support. In addition, graduates are prepared to take CompTIA, Linux Professional Institute, Microsoft, and Cisco certification exams. These skills and certifications will prepare them for immediate employment in the field of computer or IT network support and administration.

Career Opportunities

Network technicians may work within an organization or for a computer support company, and usually maintain offices but are rarely confined to them. As networks expand, more work, including technical support, can be done from remote locations. As the availability of virtually all aspects of a business become digital, network technicians are also increasingly planning, coordinating, and implementing network security. Hardware and software vendors, telephone companies, state and federal governments, and colleges and universities are among the top employers.

Career opportunities include:

- Network Technicians
- Help Desk Support
- Computer Support Specialists
- Systems Administrators
- Network Administrators
- Network Engineers

Power Plant Technology (11,12)

The Power Plant Technology program gives students an understanding of the generation process in five types of power plants; coal, nuclear, gas, hydroelectric, and solar power. This career path is technically challenging and very rewarding. Energy companies across Kansas have partnered with Power Plant Technology to offer advanced industry-sponsored training for the operation, installation, servicing and repairing of power plant equipment. FHTC offers one of the only power plant training programs in Kansas.

Program Options

Power Plant Technology offers a technical certificate and associate of applied science degree option. Courses are available either face-to-face or online and include an internship. High school seniors and juniors are also eligible to apply to this program.

The technical certificate is a one-year program that contains technical courses related to the basic skills and knowledge needed for entry-level employment opportunities in a high-demand industry. For graduates wanting to continue their education, certificate courses are transferable to the Power Plant AAS degree program.

The Power Plant Technology associate of applied science degree is a one-and-a-half-year accelerated program that contains technical and general education courses. The program can also be completed during a two-year span. Graduates will possess the knowledge and skills, acquired through classroom, laboratory and internship experiences, needed to partake in advanced industry-sponsored training for the operation, installation, servicing and repairing of power plant equipment.

Career Opportunities

The energy industry provides a service that impacts the daily lives of every individual and business in the United States. The retirements of the aging workforce, in combination with an increased demand for electricity, create a tremendous opportunity for students starting a career in energy. Power plants are looking for individuals with an understanding of the generation process to fill varied positions that are both technically challenging and rewarding. Energy companies across Kansas have partnered with the Power Plant program to make sure students are able to spend time in the plants as part of their FHTC experience. Industry experts across the United States have identified FHTC as a “best practice” program in preparing students for this challenging, interesting and rewarding career.

Career opportunities include:

- Combined Cycle or Cogeneration Power Plants
- Fossil Fuel Power Plants
- Thermal Power Plants
- Hydro-Electric Power Plants
- Nuclear Power Plants

Welding Technology (11,12)

Led by American Welding Society certified instructors, the Welding Technology program provides interactive, hands-on instruction on state-of-the-art welding techniques. Real-life experience and working conditions emphasize industrial welding knowledge and skills for welding processes and automated welding.

Program Options

Welding Technology offers a technical certificate and associate of applied science degree option. High school seniors and juniors are also eligible to apply to this program.

The technical certificate is a one-year program. The technical certificate emphasizes industrial welding knowledge and skills for entry-level welding processes in SMAW Shielded Metal Arc Welding, GMAW Gas Metal Arc Welding, GTAW Gas Tungsten Arc Welding, and FCAW Flux Cored Arc Welding, with an emphasis in structural steel welding. Graduates seeking to continue their education can transfer certificate courses to the Welding Technology AAS degree program.

The associate of applied science degree, with a major in Welding Technology, is a two-year program that contains technical and general education courses. The AAS degree option focuses on the advanced technical knowledge and skills for power plant and refinery construction/repair and on entry-level automated welding.

Career Opportunities

Opportunities in the welding field are endless and can be extremely rewarding – and because it is widely used in construction, manufacturing, and many other industries, employers have a constant need for skilled welders. Because of its strength, welding is used in shipbuilding, automobile manufacturing and repair, aerospace applications, and thousands of other manufacturing activities. Welding also is used to join beams when constructing buildings, bridges, and other structures, and to join pipes in pipelines, power plants, and refineries. Other applications include the manufacturing of small electronic devices, medical components, and nanotechnology – the latest development to revolutionize the world of materials.

Career opportunities include:

- Manufacturing
- Automotive Assembly
- Construction
- Power Plants
- Aerospace Applications

Washburn Tech

Advanced Systems Technology

Length: 2 Years

Begins: Every August & January

Train on the latest, state-of-the-art technology. You will study topics such as mechanical systems, hydraulics, controls and pneumatics and earn OSHA-10 safety certification. This 48-credit-hour program also covers welding, machine tool and robotics. Additional courses are recommended such as technical communication and computer applications.

Upon completion, you may be eligible to complete an associate degree or more advanced degrees at Washburn University.

Certifications: OSHA-10

Entry Requirements

- Level 6 Math Accuplacer
- Level 5 Reading Accuplacer

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/manufacturing-training/advanced-systems.html>

Careers In Advanced Systems Technology

- Foundry Equipment Mechanic
- Hydroelectric Mechanic
- Bag Machine Adjuster
- Product Line Mechanic
- Factory Maintenance
- Crane Oiler
- Millwright
- Boilerhouse

Auto Collision & Repair

Length: 2 Years

Begins: Every August

This program prepares you with technical knowledge and skills to repair, reconstruct and refinish automobile bodies. Our hands-on curriculum covers the areas of structural, nonstructural, mechanical, electrical, refinishing, damage estimation and safety.

Upon completion, you will earn a 51-credit-hour technical certificate and be eligible to complete an associate degree or more advanced degrees at Washburn University.

Certifications: I-CAR PDP-PRO I – Refinish, I-CAR PDP-PRO I – Nonstructural, I-CAR Intro to Collision Repair, 6-H Stripping & Coatings, SP-2 Collision Safety, SP-2 Collision Pollution Prevention, OSHA-10, AC-Refrigerant Handling, Forklift Safety, I-CAR Steel Welding

Entry Requirements

- Level 4 Math Accuplacer
- Level 4 Reading Accuplacer

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/transportation/auto-body-repair.html>

Careers In Transportation

- Body Shop
- Custom Shop
- Refinish Tech
- Product Sales
- Estimator
- Service Tech
- Field Service Tech
- Damage Appraiser

Auto Service Technician

Length: 2 Years

Begins: Every August & January

Washburn Tech provides training that uses high-tech diagnostic and repair tools on a fleet of late-model vehicles in a new, cutting-edge facility. Instruction includes basic theory and familiarization of automotive components, engine repair and performance, steering and suspension, automatic and manual transmission, brakes and electricity/electronics. The program is nationally certified and includes both classroom and hands-on learning.

Upon completion, students can earn a 52-credithour technical certificate and be eligible to complete an associate degree or more advanced degrees at Washburn University.

Certifications: ASE Student, SP/2 (Safety/Pollution Prevention), MACS 609, Snap-on EEDM-525 Multimeter, Snap-on Verus Diagnostic, OSHA-10

Entry Requirements

- Level 4 Math Accuplacer
- Level 4 Reading Accuplacer

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/transportation/auto-mechanic.html>

Careers In Transportation

- Auto Repair
- Auto Parts
- Auto Marketing
- Auto Machinist
- Fleet Maintenance
- Body Repair
- Sales Representative
- Estimator

Building Technology (Carpentry)

Length: 1 Year

Begins: Every August

This program, also called Carpentry, covers basic theory and hands-on experience in carpentry, framing and masonry.

Certifications: ASE Student, SP/2 (Safety/Pollution Prevention), MACS 609, Snap-on EEDM-525 Multimeter, Snap-on Verus Diagnostic, OSHA-10

Entry Requirements

- Level 4 Math Accuplacer
- Level 4 Reading Accuplacer
- National Center for Construction Education and Research (NCCER) regulations require students to have a social security card to be eligible to take the exam in NCCER Core. Therefore, you must present your social security card on the first day of class.

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/construction-training/building-technology.html>

Careers In Carpentry

- Drywaller
- Floor Installer
- Framer
- Educator
- Building Carpenter
- Commercial Carpenter
- Counter Installer
- Building Inspector

Cabinet/Millwork

Length: 2 Years

Begins: Every August

The cabinet and millwork program provides both theory and hands-on instruction. You will learn to work with blueprints, specifications and shop drawings as well as operate power tools and equipment in design, layout and construction of projects. Our instructor emphasizes selecting proper materials, determining the best procedures, manufacturing parts to specification, assembling and finishing. You will learn to plan, estimate and execute projects.

Upon completion, you will earn a 48-credit-hour technical certificate and be eligible to complete an associate degree or more advanced degrees at Washburn University.

Certifications: OSHA-30, NCCER Core & Cabinetry I

Entry Requirements

- Level 4 Math Accuplacer
- Level 4 Reading Accuplacer
- The National Center for Construction Education and Research (NCCER) regulations require students to have a social security card to be eligible to take the exam in NCCER Core, Therefore, you must present your social security card on the first day of class.

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/construction-training/cabinet-millwork.html>

Careers In Carpentry

- Cabinet Builders
- Cabinet Finishers
- Bandmill Operator
- Educator
- Furniture Refinisher
- Wood Model Makers
- Hardwood Sawyers
- Sawing Machine Operator

Certified Medication Aide

Length: 1 Semester

Begins: Every August & January

The certified medication aide (CMA) course introduces the basic concepts of medication administration including drug classifications, drug action and nursing implications for specific drugs. You will gain hands-on experience by working in a clinical setting. High school seniors, who are at least 18 years old, as well as adult students are eligible to enroll in this five-credit-hour course.

Upon completion, you will be prepared to take the Medication Aide Certification exam from the Kansas Department of Aging and Disability Services. However, as stipulated by law, you must be 18 years of age to take the certification exam.

Certifications: Certified Medication Aide

Entry Requirements

- Level 5 Math Accuplacer
- Level 5 Reading Accuplacer
- You must be 18 years old to take the certification exam
- You must have a current Kansas CNA license to enroll
- You must present your social security card the first day of class

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/health-care/cma-program.html>

Careers As A Certified Medication Aide

- Healthcare
- Home Plus
- Nursing Home
- Assisted Living
- Clinics
- In-Home Care
- Hospice
- Corrections Facility
- Any Long-Term Care Setting

Certified Nurse Aide

Length: 1 Semester

Begins: Schedules vary by instructor

Our CNA classes are designed for those wanting to earn a nurse aide certification from the State of Kansas. Based on the state's certified nurse aide curriculum, this program covers 90 hours of instruction with students receiving classroom and hands-on clinical experience. High school juniors and seniors as well as post-secondary students are eligible for this program, which is a prerequisite for the Certified Medication Aide, Home Health Aide and Practical Nursing programs.

Upon completion, you will be prepared to take the Nurse Aide Certification exam from Kansas Department of Aging and Disability Services. You must bring a copy of your social security card and a photo ID to the first day of class.

Please note: Many of our clinical partners are requiring students to have the vaccine in order to complete clinical hours. Due to accrediting body and program clinical requirements, Washburn Tech cannot guarantee that requirements for program completion can be met when a student is not vaccinated.

Certifications: Certified Nurse Aide, OSHA-10, Paid Nutrition, STEPPS

Entry Requirements

- Level 4 Math Accuplacer
- Level 4 Reading Accuplacer
- Students are required to obtain a physical, TB test and tetanus booster
- You must present your social security card the first day of class

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/health-care/cna-program.html>

Careers As A Certified Nurse Aide

- Nursing Homes
- Hospitals
- Assisted Living and Retirement Communities
- Home Healthcare
- Government Facilities
- Clinics
- Hospice

Climate & Energy Control Technologies (HVAC)

Length: 2 Years

Begins: Every August

The program operates out of the Midwest Training Center, a state-of-the-art facility in partnership with Trane, Snap-on and the National Coalition of Certification Centers. You will study electricity, heating, residential air conditioning, refrigeration, sheet metal fabrication, direct digital controls (DDC) and commercial HVAC applications. You can leave with industry credentials in the areas of refrigerant handling safety, tool usage and control systems.

Upon completion, you will earn a 44-credit hour technical certificate and be eligible to complete an associate degree or more advanced degrees at Washburn University.

Certifications: EPA 608, 410A Safety Certification, OSHA-10, Tool Safety, Meter Certification, Building Automation Level I, HVACR ICE

Entry Requirements

- Level 5 Math Accuplacer
- Level 5 Reading Accuplacer

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/construction-training/hvac-training.html>

Careers In HVAC

- Residential
- Commercial
- Industrial
- Sales
- Solar Technician
- Wind Turbine Tech
- Systems Designer
- Service Manager

Cosmetology

Length: 2 Years

Begins: Every August

This program provides graduates with the necessary knowledge and skills they need to work in the field of cosmetology. Our 51-credit-hour-program includes classroom and clinical instruction that totals 1,500 hours, as required by the Kansas Board of Cosmetology. Students will learn how to artistically integrate haircutting and hairstyling for all clientele types, manage hair color and permanent waving, apply facials and skin care as well as marketing and salon customer service.

Upon successful completion, you will be prepared to earn a license from the Kansas Board of Cosmetology.

Certifications: KS Board of Cosmetology license, OSHA-10

Entry Requirements

- Level 4 Math Accuplacer
- Level 4 Reading Accuplacer
- Students must have their state issued ID and social security card the first day of class
- Students may have to get a background check

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/hospitality-management/cosmetology.html>

Careers In Cosmetology

- Hairstylist
- Barber
- Fashion Show Stylist
- Hair Color Specialist
- Barbershop or Salon Owner

Culinary Arts

Length: 2 Years

Begins: Every August

This program prepares you to be a productive member of any restaurant or culinary staff. You will learn culinary math, food safety and sanitation, use and care of equipment and food preparation and cooking skills. Instruction also covers baking, purchasing and menu planning, as well as restaurant supervision and management. Students must pass the ServSafe certification early in the program.

Upon completion, you will earn a 48-credit-hour technical certificate and be eligible to complete an associate degree or more advanced degrees at Washburn University.

Certifications: ServSafe, OSHA-10

Entry Requirements

- Level 4 Math Accuplacer
- Level 4 Reading Accuplacer

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/hospitality-management/culinary-arts.html>

Careers In Hospitality

- Food Service Manager
- Restaurant Manager/Owner
- Sales Representative
- Corporate Chef
- Restaurant Chef
- Personal Chef
- Caterer
- Pastry Chef

Diesel Technology

Length: 2 Years

Begins: Every August & January

This 49-credit-hour program prepares you to apply technical knowledge and skills to work on light and heavy wheeled diesel-powered equipment. Instruction, covering several types of equipment, includes tune-up and overhauling, transmissions and differentials. You also may complete an Associate of Science Degree or more advanced degrees at Washburn University.

Certifications: OSHA-10

Entry Requirements

- Level 4 Math Accuplacer
- Level 4 Reading Accuplacer

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/transportation/diesel-mechanic-training.html>

Careers In Transportation

- Dealership
- Private Garage
- Car/Truck Shop
- Bus Company
- Fleet Maintenance
- Farm Equipment Repair
- Sales Representative
- Educator

Early Childhood Professional

Length: 1 Year

Begins: Every August

Our early childhood education program provides training in the processes and principles of child growth and development. Instruction emphasizes social, emotional, physical and cognitive development in addition to support services for children. You will gain hands-on experience by working in the licensed child care center on our campus, Little Learners at Washburn Tech.

Upon completion, you will earn a 24-credit-hour technical certificate and be eligible to complete a more advanced degree at Washburn University.

Certifications: CPR, First Aid

Entry Requirements

- Level 4 Math Accuplacer
- Level 4 Reading Accuplacer
- Students are required to obtain a Physical and TB test
- Students are required to complete paperwork for a background check upon starting. This paperwork must be returned to Washburn Tech prior to starting the program.

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/hospitality-management/early-childhood-training.html>

Careers In Hospitality

- Child Care Center Worker
- Preschool Teacher
- Family Support Worker
- After-School Care
- Nanny
- Play Therapist
- Youth Worker
- Teaching Assistant

Electrical

Length: 1 Year

Begins: Every August

This program prepares you for work in electrical construction and maintenance. Instruction includes safety, electrical theory, blueprint reading, wiring, electrical construction and residential/commercial electricity.

Upon completion, you will earn a 30-credit-hour technical certificate and may be eligible to enter an electrical union's apprenticeship program at the second level.

Certifications: OSHA-30, NCCER Core, NCCER Field Safety, NCCER Electricity Level I

Entry Requirements

- Level 6 Math Accuplacer
- Level 5 Reading Accuplacer
- The National Center for Construction Education and Research (NCCER) regulations require students to have a social security card to be eligible to take the exam in NCCER Core, Therefore, you must present your social security card on the first day of class.

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/construction-training/electrical-training.html>

Careers As An Electrician

- Construction
- Maintenance
- Industrial
- Line Worker
- Network Cabling
- Security System Installer
- Residential
- Renewable Energy

Emergency Medical Technician

Length: 1 Semester

Begins: Every January, May & August

The program provides special skills, knowledge and the teamwork concepts necessary for earning certification as an EMT in Kansas. You will receive 200 hours of instruction, consisting of both didactic and psychomotor skills in the classroom. Our nine-credit-hour program exceeds state and national requirements, and is based on current information and techniques considered the responsibility of the EMT.

Upon completion, you will be prepared to take the national EMT exam. You must be 18 years old to take both the Kansas and national EMT certification exams. You also must be at least 18 years old to take this course.

Certifications: Certified EMT

Entry Requirements

- Level 5 Math Accuplacer
- Level 5 Reading Accuplacer

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/health-care/emt-training.html>

Careers For An EMT

- County EMT
- Police Medic
- Military Medic
- EMT Trainer
- ER Technician
- Contract Medic
- Offshore Medic
- Industrial Medic

Foundations of Healthcare

Length: 1 Semester

Begins: Every August & January

This semester-long program is designed for high school students preparing to become a nurse aide, nutrition assistant or looking for home health aide training. The curriculum will introduce you to basic patient care skills, medical terminology and systems of the human body. The 13-credit-hour program will prepare you to become certified as both a nurse aide and home health aide. It also serves as the foundation for more advanced health care programs at Washburn Tech such as practical nursing and surgical technology.

Upon completion, you will be eligible to take both the CNA and HHA exams from the Kansas Department of Aging and Disability Services.

Certifications: Certified Nurse Aide or CNA; Home Health Aide Certification

Entry Requirements

- Level 4 Math Accuplacer
- Level 4 Reading Accuplacer
- Must present your social security card on first day of class

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://www.washburntech.edu/career-programs/health-care/health-care-technology.html>

Careers In Healthcare

- Practical Nurse
- Surgical Tech
- Phlebotomist
- Registered Nurse
- EMT
- Educator
- Therapist
- Physician

Graphics Technology

Length: 2 Years

Begins: Every August & January

Our program provides instruction on the basics of graphic design software such as Adobe InDesign, Adobe Illustrator and Adobe Photoshop through tutorials, hands-on activities, client-driven projects and internship opportunities.

Upon completion, you will earn a 48-credit-hour technical certificate and be eligible to complete an associate degree or more advanced degrees at Washburn University.

Certifications: Adobe Illustrator, InDesign & Photoshop

Entry Requirements

- Level 4 Math Accuplacer
- Level 4 Reading Accuplacer
- Due to the popularity of this program, applicants must go through a competitive enrollment process. Please talk with a Washburn Tech recruiter for details.

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/drafting-design/graphic-design.html>

Careers In Graphic Design

- Agency Work
- Art Director
- Web Design
- Product Design
- Publishing House
- Internal Design Departments
- Media Companies
- Digital Design Company

Heavy Diesel Construction Technology

Length: 2 Years

Begins: Every August & January

This program is housed in one of the region's premiere training labs. Thanks to corporate partners CASE Construction and The Victor L. Phillips Company, you can train on the newest equipment and latest technology while following industry-guided curriculum, course structure, content, competencies and assessments.

Upon completion, you can earn a 5-credit-hour technical certificate. You also may complete an Associate of Science Degree or more advanced degrees at Washburn University.

Certifications: Heavy-Duty Fleet Safety, Pollution Prevention, HAZMAT - Auto Dealers, Supervisor's Course, Mechanical Safety, Mechanical Pollution Prevention, OSHA-10

Entry Requirements

- Level 4 Math Accuplacer
- Level 4 Reading Accuplacer

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/transportation/diesel%20heavy%20construction.html>

Careers In Heavy Diesel

- Dealership
- Estimator
- Fleet Repair
- Fleet Sales
- Construction Company
- Parts Representative
- Field Mechanic
- Ag Operation Mechanic

Home Health Aide

Length: 1 Semester

Begins: Every August & January

You must be a CNA to enroll in this part-time course, which offers two hours of credit. The program provides the foundation for more advanced healthcare programs at Washburn Tech such as practical nursing and surgical technology.

Upon completion, you will be eligible to earn a home health aide certificate after passing the Kansas Department for Aging and Disability Services exam.

Certifications: Home Health Aide

Entry Requirements

- Level 4 Math Accuplacer
- Level 4 Reading Accuplacer
- Must present your social security card on first day of class

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/health-care/health-care-technology.html>

Careers In Healthcare

- Practical Nurse
- Registered Nurse
- Phlebotomist
- EMT
- Medication Aide
- Surgical Tech
- Educator
- Therapy Assistant

Information Systems Technology

Length: 2 Years

Begins: Every August

The first two semesters of this half-day program provide a hands-on introduction to the inner workings of computers. Instruction covers computer hardware, Microsoft and Linux network operating systems, directory services, cyber security, Web service, LAN/WAN technologies and messaging services. The final two semesters provide the opportunity to set-up and maintain networking devices such as routers, switches and WAN connections to share data and resources on the network.

Upon successful completion, you will earn a 48-credit-hour technical certificate and be eligible to complete an associate degree or more advanced degrees at Washburn University.

Certifications: CompTIA A+, CompTIA Network+, CompTIA Security+, MD-100 Microsoft Windows 10, Red Hat Certified System Admin, Cisco Certified Network Association

Entry Requirements

- Level 5 Math Accuplacer
- Level 5 Reading Accuplacer

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/computer-courses/IST.html>

Careers In Information Technology

- Hardware Engineer
- Data Architect
- Solutions Architect
- Tech Support
- Network Administrator
- Computer Network Architect
- Site Reliability Engineer
- Computer Systems Analyst

Machine Tool

Length: 2 Years

Begins: Every August

In this program, you will learn to read technical information on blueprints along with sketching, angles, tapers, gearing and precision measuring. Instruction also includes hands-on training in the operation of machine tools, such as the engine lathe, milling machine, surface grinder, drill press, computerized numerical control milling machine and computerized numerical control lathe.

Upon completion, you will earn a 48-credit-hour technical certificate and a NIMS certificate. You also may be eligible to complete an associate or more advanced degrees at Washburn University.

Certifications: NIMS, OSHA-10

Entry Requirements

- Level 4 Math Accuplacer
- Level 4 Reading Accuplacer

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/manufacturing-training/tool-training.html>

Careers As A Machinist

- Auto Machinist
- Die Maker
- CNC Machinist
- Gear Machinist
- Jig Bore Tool Maker
- Factory Maintenance
- Manual Lathe Machinist
- Metal Die Finisher

Fast-Track Machine Tool

Length: 1 Year

Begins: Every August & January

You will learn to read technical information on blueprints along with sketching, angles, tapers, gearing and precision measuring. You also will receive hands-on training in the operation of machine tools, such as the engine lathe, milling machine, surface grinder, drill press, computerized numerical control milling machine and computerized numerical control lathe.

Upon completion, you will earn a 23-credit-hour technical certificate and a NIMS certificate.

Certifications: NIMS, OSHA-10

Entry Requirements

- Level 4 Math Accuplacer
- Level 4 Reading Accuplacer

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/manufacturing-training/fast-track%20tool%20training.html>

Careers As A Machinist

- Auto Machinist
- Die Maker
- CNC Machinist
- Gear Machinist
- Jig Bore Tool Maker
- Factory Maintenance
- Manual Lathe Machinist
- Metal Die Finisher

Phlebotomy

Length: 1 Semester

Begins: Every August & January

Washburn Tech's phlebotomy certificate program was created in response to high area demand for trained phlebotomists. The one semester, 10-credit-hour program is designed to prepare you to sit for the credentialing exam offered by the American Medical Technologist organization. This half-day program replaces the current apprenticeship model of phlebotomy training utilized by area hospitals and provides a trained workforce for the medical community. Current on-the-job training requires a significant amount of time and resources from the hiring agency which often results in higher than average turnover. As a result, this new model requires training to take place prior to employment.

Certification: Registered Phlebotomy Tech

Entry Requirements

- Level 4 Math Accuplacer
- Level 4 Reading Accuplacer
- Students must be 18 years of age or older to enroll in this program. For fall semester must be 18 by October 1st. For spring semester must be 18 by March 1st. For summer semester must be 18 by June 1st.
- Must have current physical and TB skin test
- Must have Tdap, MMR, hepatitis B series-first vaccine must have been started, COVID-19 vaccine, varicella vaccine or titer, and seasonal flu shot
- Must have valid health insurance (must remain active during the entire program)

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://www.washburntech.edu/career-programs/health-care/Phlebotomy.html>

Careers In Healthcare

- Lab Tech
- Histotechnician
- Pathologist Assistant
- Medical Asst.
- Cytotechnologist
- Practical Nurse
- Registered Nurse
- Physician

Technical Drafting

Length: 2 Years

Begins: Every August

Our program provides hands-on experience in the proper use of drafting tools, software and equipment. You will learn to prepare drawings and reproductions, and develop skills, knowledge and techniques for use in a variety of areas in the drafting field. Our program focuses on the fundamentals of CAD, emphasizing the use of computer hardware and software in processing and retrieving drawings and data files. Emphasis is placed on 3D modeling. Other areas of study include applied algebra, geometry and trigonometry, as well as scientific and physical principles of construction and manufacturing materials and techniques.

Upon completion, you will earn a 48-credit-hour technical certificate and be eligible to complete an associate degree or more advanced degrees at Washburn.

Certification: OSHA-10

Entry Requirements

- Level 5 Math Accuplacer
- Level 4 Reading Accuplacer

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/drafting-design/technical-drafting.html>

Careers In Drafting

- Cad Drafters
- Cad Designers
- Auto Design
- Architectural
- Building Drafters
- Blueprint Tracers
- Aeronautical Drafters
- Circuit Board Drafters

Welding

Length: 2 Years

Begins: Every August

This program will prepare you to apply technical knowledge and skills when bonding or cutting metal parts. Instruction, both formal and self-paced, includes shielded metal arc welding, gas metal arc welding, flux cored arc welding, gas tungsten arc welding and cutting processes. Emphasis also is placed on quality assurance and control, print reading, safety and workplace skills.

Upon completion, you will earn a 48-credit-hour technical certificate and be eligible to complete an associate degree or more advanced degrees at Washburn University.

Certification: OSHA-10

Entry Requirements

- Level 4 Math Accuplacer
- Level 4 Reading Accuplacer

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/manufacturing-training/welding.html>

Careers In Welding

- Manufacturing
- Shipfitter
- Weld Educator
- Weld Inspector
- Underwater Welder
- Pipefitter
- Boilermaker
- Ironworker

Fast-Track Welding

Length: 1 Year

Begins: Every August & January

Our fast-track program will prepare you to apply technical knowledge and skills when bonding or cutting metal. Instruction, both formal and self-paced, includes shielded metal arc welding, gas metal arc welding, gas tungsten arc welding and cutting processes. Emphasis also is placed on quality assurance and control, print reading and welding safety.

Upon completion, you will earn a 24-credit-hour technical certificate.

Certifications: 3G AWS Certification, OSHA-10

Entry Requirements

- Level 4 Math Accuplacer
- Level 4 Reading Accuplacer

For program syllabus, technical standards, textbook/supplies and cost sheet, visit:

<https://washburntech.edu/career-programs/manufacturing-training/fast-track%20welding.html>

Careers In Welding

- Manufacturing
- Shipfitter
- Weld Educator
- Weld Inspector
- Underwater Welder
- Pipefitter
- Boilermaker
- Ironworker

LHS Student Participation Form

Concurrent & CTE Enrollment Expectations

Student Name _____

Upcoming Grade Level _____

The following requirements must be fulfilled for students enrolling in a CTE program and/or concurrent course(s):

- Students must be a junior/senior and meet admissions criteria established by the corresponding college.
- Students are responsible for completing all admission and enrollment requirements. This includes taking and/or submitting standardized test scores (ACT/ACCUPLACER), if required.
- Students must provide proof of enrollment to Mrs. Smith by the first day of class, according to the LHS calendar, each semester.
- Students are responsible for the purchase/return of textbooks, tuition, materials, and fees.
- Students are responsible for knowing deadlines for enrollment, refunds, withdrawal, payment, etc.
- Students shall utilize USD 421 transportation to the college, unless other arrangements have been made with Mr. Smith. USD 421 and/or the college are not responsible for insurance coverage during transportation time when utilizing other than school furnished transportation between either sites. Liability and health coverage are the personal responsibility of the family/guardian of the student during this time of utilization of other than school transportation and all adjacent time intervals to and from LHS and the college.
- When absent from class, students are responsible for contacting LHS as well as your college instructor. Compliance with the attendance and tardy regulations of both the college and LHS is required in order for full credit to be awarded.
- The final course grade(s) will appear on both the high school transcript and the permanent college transcript. Students should understand that poor grades may affect future financial aid and scholarship eligibility.
- Students who withdraw from a course taken concurrently must do so at the high school and college. Withdrawing from the course at the high school and not withdrawing from the course at the college will result in a failing grade at the college. Withdrawing from a concurrent course will automatically result in an F on your high school transcript.
- If students are dismissed from the college, due to lack of attendance, discipline, behavior, etc. credit will not be awarded, and an F will be placed on the high school transcript.
- Students must agree to abide by all rules and regulations of USD 421 and the college in which enrolled. Repeated infractions of attendance, academic, disciplinary, or behavioral requirements will result in suspension from the program and/or denial of credits.
- Students are responsible for checking with universities as it pertains to classes transferring for college credit, as well as, knowing the incoming status as a college freshman.
- Students will attend the college whenever it is in session. The ONLY exception is when LHS is closed due to inclement weather.
- For CTE Enrollment: Students who successfully complete a semester/year of a CTE Program of Study can receive a semester/year credit in Technical Math, Technical English, and/or Technical Science. Students completing only a portion of a program and/or failing to pass a course will not achieve sufficient course outcomes/objectives/standards to receive the high school credit and may jeopardize his/her high school graduation.

Permission to Release Information

In signing below, I (student and parent/guardian) hereby grant permission for the exchange of educational information, such as grades and academic progress, between the college indicated above and USD 421. I understand that the information shared will only be given to individuals who work directly with my student regarding their academic success. By signing below, I have read and agree to the terms and conditions of this agreement.

Student Signature _____ Date _____

Parent/Guardian Signature _____ Date _____