Ell-Saline High School Course Catalog

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Welcome to the Ell-Saline Course Catalog

At Ell-Saline, we are dedicated to providing a comprehensive, engaging, and personalized educational experience for all students. This course catalog is your guide to the wide range of courses and programs available to middle and high school students across our district.

Whether you are beginning your academic journey in middle school or preparing for college, career, and life in high school, this catalog is designed to help students explore opportunities and make informed decisions about students educational path.

Our curriculum reflects our commitment to excellence, offering rigorous core subjects, diverse electives, dual credit opportunities, career and technical education, and enrichment programs tailored to meet the unique needs and aspirations of every student.

We encourage students and families to review this catalog together, reflect on future goals, and seek guidance when selecting courses. At Ell-Saline, we believe every student's journey is unique, and we are here to support and guide you every step of the way.

Let's make this year a memorable and successful one!

Mission Statement and Values

All Can Achieve and Succeed

At Ell-Saline, our mission is all students will be provided a safe, stimulating environment so that they will gain the knowledge, skills, and values necessary for living, earning, and working.

Values

Our values serve as the bedrock of our district, defining who we are, what we stand for, and how we conduct ourselves. Upholding our values ensures that we consistently deliver excellence in our district and fosters an environment culture built on trust, respect, and continuous improvement.

High School Graduates Academic Year 2022-2023 and After

Qualified Admissions

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

ACCREDITED HIGH SCHOOL

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

ESU, PSU, FHSU, & WSU:

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

K-State:

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

KU:

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

ALL Institutions Require:

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

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

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

English
4 units

Math
4 units
1 unit of each:
Algebra 1, Geometry, Algebra II
1 unit: Advanced Math
See KS Scholars page For Math course list

Social Science
3 units
1 unit U.S. History
.5 unit U.S. Gov
.5 unit World History
1 unit: Social Science course
See KS Scholars Page for Social Science course list

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

Foreign Language
2 units of the same language

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

HOMESCHOOL & UNACCREDITED HIGH SCHOOL

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

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

This document provides a summary overview of admission requirements at state universities and is not a substitute for or to be used in lieu of the actual detailed admissions requirements, which can be found at: www.kansasregents.org/qualified_admissions_rules_regulations.

February 2022

KANSAS BOARD OF REGENTS

Kansas Scholars Curriculum & State Scholar Quick Facts

Completion of the Kansas Scholars Curriculum is one of the requirements Kansas residents must meet in order to receive State Scholar designation. This occurs during the senior year of high school.

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 on the official roster by the high school counselor, registrar, or similar official.

KANSAS SCHOLARS CURRICULUM

English - 4 years
One unit to be taken each year. Must include substantial recurrent practice in writing extensive and structured papers, extensive reading of significant literature, and significant experience in speaking and listening.

Mathematics - 4 years
Algebra I, Algebra II, Geometry, and one unit of advanced mathematics-- suggested courses include: Analytic Geometry, Trigonometry, Advanced Algebra, Probability and Statistics, Functions or Calculus. Completion of Algebra I in 8th grade is acceptable for the Kansas Scholars Curriculum.

Science - 3 years
One year each in Biology, Chemistry, and Physics, each of which include an average of one laboratory period a week. Applied/technical courses may not substitute for a unit of natural science credit.

Social Studies - 3 years
One unit of U.S. History; minimum of one-half unit of U.S. Government and minimum of one-half unit selected from: World History, World Geography or International Relations; and one unit selected from: Psychology, Economics, U.S. Government, U.S. History, Current Social Issues, Sociology, Anthropology, and Race and Ethnic Group Relations. Half unit courses may be combined to make this a whole unit.

Foreign Language - 2 years
Two years of one language. Latin and Sign Language are accepted.

Please note, this curriculum is NOT the same as the Qualified Admissions Curriculum.

What is the benefit of completing the Kansas Scholars Curriculum?

Students that complete this curriculum and meet the other requirements, may be designated as State Scholars, which makes one eligible to receive the Kansas State Scholarship as provided by the Kansas Legislature.
The academic profile of recent scholars include an average ACT of 30 and an average GPA of 3.91. 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. Financial need is measured by federal methodology using data submitted on the FAFSA.

For more information, contact us at 785.430.4300 or at **kansasregents.org/students/student_financial_aid**.

kansasregents.org

Division I Academic Standards

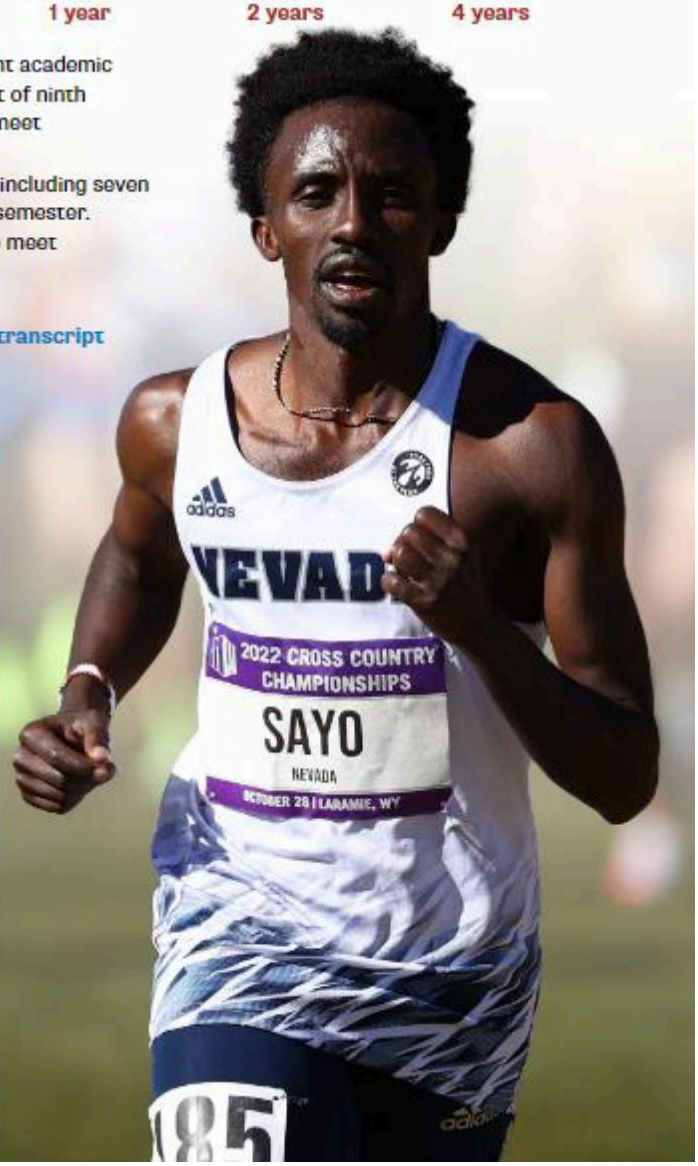
Division I schools require you to meet academic standards. To be eligible to practice, compete and receive an athletics scholarship in your first year of full-time enrollment, you must meet the following requirements:

NCAA DIVISION I

1. Earn 16 NCAA-approved core-course credits in the following areas:

ENGLISH	MATH (Algebra I or higher)	SCIENCE (including one year of lab, if offered)	EXTRA (English, math or science)	SOCIAL SCIENCE	OTHER Any area listed to the left or courses listed in additional discipline (world language, comparative religion or philosophy)
4 years	3 years	2 years	1 year	2 years	4 years

2. Complete your 16 NCAA-approved core-course credits in eight academic semesters or four consecutive academic years from the start of ninth grade. If you graduate from high school early, you still must meet core-course requirements.
3. Complete 10 of your 16 NCAA-approved core-course credits, including seven in English, math or science, before the start of your seventh semester. Once you begin your seventh semester, any course needed to meet the 10/7 requirement cannot be replaced or repeated.
4. Earn a minimum 2.3 **core-course GPA**.
5. Ask your high school counselor to upload your **final official transcript** with proof of graduation to your Eligibility Center account.



EARLY ACADEMIC QUALIFIER

If you meet specific criteria after six semesters of high school, you may be deemed an early academic qualifier for Division I and may practice, compete and receive an athletics scholarship during your first year of full-time enrollment.

QUALIFIER

You may practice, compete and receive an athletics scholarship during your first year of full-time enrollment.

ACADEMIC REDSHIRT

You may practice during your first regular academic term and receive an athletics scholarship during your first year of full-time enrollment but may NOT compete during your first year of full-time enrollment. You must pass either eight quarter or nine semester hours to practice in the next term.

NONQUALIFIER

You will not be able to practice, compete or receive an athletics scholarship during your first year of full-time enrollment.


GRADE 9
REGISTER
» If you haven't yet, register for a free Profile Page account at eligibilitycenter.org for information on NCAA initial-eligibility requirements.
» Use NCAA Research's interactive map to help locate NCAA schools you're interested in attending.
» Find your high school's list of NCAA-approved core courses at eligibilitycenter.org/courselist to ensure you're taking the right courses, and earn the best grades possible!
GRADE 10
PLAN
» If you're being actively recruited by an NCAA school and have a Profile Page account, transition it to the required certification account.
» Monitor the task list in your NCAA Eligibility Center account for next steps.
» At the end of the school year, ask your high school counselor from each school you attend to upload an official transcript to your Eligibility Center account.
» If you fall behind academically, ask your high school counselor for help finding approved courses you can take.
GRADE 11
STUDY
» Ensure your sports participation information is correct in your Eligibility Center account.
» Check with your high school counselor to make sure you're on track to complete the required number of NCAA-approved core courses and graduate on time with your class.
» Share your NCAA ID with NCAA schools recruiting you so each school can place you on its institutional request list.
» At the end of the school year, ask your high school counselor from each school you attend to upload an official transcript to your Eligibility Center account.
GRADE 12
GRADUATE
» Request your final amateurism certification beginning April 1 (fall enrollees) or Oct. 1 (winter/spring enrollees) in your Eligibility Center account at eligibilitycenter.org.
» Apply and be accepted to the NCAA school you plan to attend.
» Complete your final NCAA-approved core courses as you prepare for graduation.
» After you graduate, ask your high school counselor to upload your final official transcript with proof of graduation to your Eligibility Center account.
How to plan your high school courses to meet the 16 core-course requirement:
4 x 4 = 16
9th GRADE
10th GRADE
11th GRADE
12th GRADE
(1) English
(1) Math
(1) Science
(1) Social Science and/or other
4 CORE COURSES
NCAA
2023 DIVISION I
CONTACT THE NCAA ELIGIBILITY CENTER
U.S. and Canada (except Quebec):
877-262-1492 (toll free), Monday-Friday
9 a.m. to 5 p.m. Eastern time
International (including Quebec):
on.ncaa.com/IntlContact
@ncaaec @ncaaec @ncaaec @playcollegesports

Division II Academic Standards

DIVISION II

MAKE IT YOURS

Division II schools require you to meet academic standards. To be eligible to practice, compete and receive an athletics scholarship in your first year of full-time enrollment, you must meet the following requirements:

1. Earn 16 NCAA-approved core-course credits in the following areas:

ENGLISH	MATH (Algebra I or higher)	SCIENCE (including one year of lab, if offered)	EXTRA (English, math or science)	SOCIAL SCIENCE	OTHER Any area listed to the left or courses listed in additional discipline (world language, comparative religion or philosophy)
3 years	2 years	2 years	3 years	2 years	4 years

2. Earn a minimum 2.2 **core-course GPA.**
3. Ask your high school counselor to upload your **final official transcript** with proof of graduation to your Eligibility Center account.

EARLY ACADEMIC QUALIFIER

If you meet **specific criteria** after six semesters of high school, you may be deemed an early academic qualifier for Division II and may practice, compete and receive an athletics scholarship during your first year of full-time enrollment.

QUALIFIER

You may practice, compete and receive an athletics scholarship during your first year of full-time enrollment.

PARTIAL QUALIFIER

You may practice and receive an athletics scholarship but may NOT compete during your first year of full-time enrollment.

TEST SCORES

Every time you register for the SAT or ACT, use code **9999** to send your scores directly to the Eligibility Center from the testing agency. You may take the SAT or ACT an unlimited number of times before you enroll full time in college. If you take either test more than once, the best subscore from each test is used to give you the best possible score.

**More information regarding the impact of COVID-19 and test scores can be found at on.ncaa.com/COVID19_Spring2023.*

CORE-COURSE LIST

Find your high school's list of NCAA-approved core courses at eligibilitycenter.org/courselist. No core-course list means courses taken from that high school will not count for NCAA eligibility. If your high school does not have a list, you risk being ineligible to play in college.

NONTRADITIONAL AND ONLINE COURSES

Nontraditional courses are taught online or through distance learning, hybrid/blended, independent study, individualized instruction, correspondence or similar means.

These types of courses may be acceptable for use in the NCAA initial-eligibility certification process; however, it is important to make sure the nontraditional program has been approved and appears on your school/program's list of NCAA-approved core courses.

BE AHEAD OF THE GAME

- Plan to register with the NCAA Eligibility Center at eligibilitycenter.org before your freshman year of high school. Visit on.ncaa.com/RegChecklist to help guide you through the registration process.
- After six semesters of high school, ask your high school counselor from each school you have attended to upload an official transcript to your Eligibility Center account.
- For more information on Division II, visit ncaa.org/D2.

ADDITIONAL RESOURCES

- DI Academic Requirements flyer.
- DIII Amateurism flyer.
- International Initial-Eligibility flyer.

DIVISION II
QUALIFIER SLIDING SCALE

Core GPA	SAT*	ACT Sum*
3.300 & above	400	37
3.275	410	38
3.250	430	39
3.225	440	40
3.200	460	41
3.175	470	41
3.150	490	42
3.125	500	42
3.100	520	43
3.075	530	44
3.050	550	44
3.025	560	45
3.000	580	46
2.975	590	46
2.950	600	47
2.925	620	47
2.900	630	48
2.875	650	49
2.850	660	49
2.825	680	50
2.800	690	50
2.775	710	51
2.750	720	52
2.725	730	52
2.700	740	53
2.675	750	53
2.650	750	54
2.625	760	55
2.600	770	56
2.575	780	56
2.550	790	57
2.525	800	58
2.500	810	59
2.475	820	60
2.450	830	61
2.425	840	61
2.400	850	62
2.375	860	63
2.350	860	64
2.325	870	65
2.300	880	66
2.275	890	67
2.250	900	68
2.225	910	69
2.200	920	70 & above

Want more information? Visit ncaa.org/playcollegesports.

CONTACT THE NCAA ELIGIBILITY CENTER

U.S. and Canada (except Quebec): 877-262-1492

Monday-Friday, 9 a.m. to 5 p.m. Eastern time

@ncaaec @playcollegesports @ncaaec

NCAA ELIGIBILITY CENTER

NAIA Eligibility

National Association of Intercollegiate Athletics

The NAIA Eligibility Center, at PlayNAIA.org is responsible for determining the NAIA eligibility of first-time student-athletes. Students must have their eligibility determined by the NAIA Eligibility Center, and all NAIA schools are bound by the center's decisions.

Do I meet the freshman eligibility requirements?

If you will graduate from a U.S. high school this spring and enroll in college this coming fall, the requirements are simple. An entering freshman must:

- Be a graduate of an accredited high school.
- Meet **two of the three** following requirements. If as an entering freshman you do not meet at least two of the three standards.

MUST MEET TWO OF THE THREE

1. TEST SCORE REQUIREMENT	2. HIGH SCHOOL GPA REQUIREMENT	3. CLASS RANK REQUIREMENT
Achieve a minimum of 18 on the ACT or 970 on the SAT	**Achieve a minimum overall high school grade point average of 2.0 on a 4.0 scale**	**Graduate in the top half of your high school class**
Tests must be taken on an international testing date prior to the start of the term in which you intend to participate in athletics and scores must be achieved on a single test date. The minimum SAT must be achieved on the Evidence-Based Reading & Writing and Math sections only; the Writing score cannot be used. Minimum score requirements for tests taken prior to May 1, 2019 varied. • For tests taken prior to March 1, 2016: 18 ACT, 860 SAT (reading, math) • For tests taken between March 1, 2016 and May 1, 2019: 16 ACT, 860 SAT (evidence-based reading & writing, math)	The NAIA accepts the grade point average determined by the high school, provided it is recorded and awarded in the same manner as for every other student at the school.	If a student's class rank does not appear on the transcript, a signed letter from the principal or headmaster, vice principal or guidance counselor written on the school's letterhead and with the school's official seal, stating the student's final class rank position or percent may be submitted. **Exception:** Completion of nine institutional credit hours prior to identification at any institution of higher education can be used if no class rank appears on the final official high school transcript. The credit hours must be completed with a grade of "C" or better.

NAIA Eligibility Center at PlayNAIA.org determines eligibility of all first-time NAIA student-athletes

The NAIA Eligibility Center, at **PlayNAIA.org**, is responsible for determining the NAIA eligibility of first-time student-athletes. Students must receive an eligible decision by the NAIA Eligibility Center prior to competing for the first-time in the NAIA, and all NAIA schools are bound by the center's decisions.

Every student interested in playing sports at NAIA colleges for the first time needs to register online with the NAIA Eligibility Center and receive an eligible determination. This applies to high school seniors and transfers from both two- and four-year colleges.

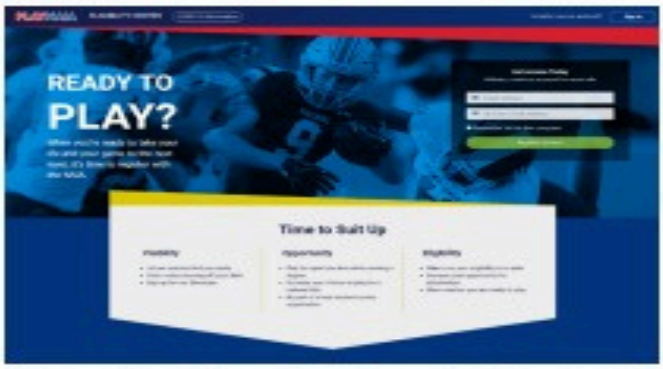
What information will I need to provide? You'll create a personal profile with the basic facts about your academic history and sports participation to date.

- You'll need your current contact information, previous residences and addresses, high schools attended and history of your sports participation during and after high school graduation.
- 9876 When you register for the ACT or SAT, include the NAIA Eligibility Center (9876) on the list of places test scores should be sent.
- Ask your high school counselors to send a final, official transcript that verifies high school graduation, class rank and cumulative grade point average to the eligibility center through the NAIA High School Portal.

What are the costs?

Registration costs for students are as follows:

- Canada: $90
- International: $150
- US/Canadian freshman break: $135
- US/Canadian break: $150



This is a one-time, nonrefundable registration fee and includes all services for the student type. Additional fees may be assessed if your student type changes.

The registration fee will be waived for U.S. students with demonstrated need. If you received a fee waiver for the ACT or SAT test or received federal free or reduced-cost lunch program, contact your high school counselor, who can provide confirmation of your eligibility for a fee waiver to the NAIA Eligibility Center. Fee waiver confirmations are required to be completed by high school counselors through the online **NAIA High School Portal** regardless of when you graduated high school.

Questions? If you have any questions, you can visit the NAIA website: www.PlayNAIA.org

CLASS CHANGES/DROPS AND TRANSFERS

Prior to the last day of school, students may alter pre-enrollment for the next year upon student, parent, teacher, or counselor initiative. During the first week of the school year (or semester for a semester class) counselor and parent approval is required for class changes and transfers. No record of said drop or transfer shall be made on the student transcript. After the first week of classes, a student may drop a class or transfer to another class only after there has been counselor and administrative consultation with the teacher and parent/guardian with the final decision made by an administrator. After the second week of classes, an administrator may approve a drop or transfer provided extenuating circumstances exist. Should a drop request be approved after the first week of classes, the drop shall be recorded on the student's permanent transcript with the class name and either WP (Withdrawn Passing) or WF (Withdrawn Failing). A grade of "F" will be recorded on the student's transcript and will be calculated into the student's GPA for any class dropped after the beginning of the second or fourth quarter.

GRADUATION REQUIREMENTS

Each student will be a successful high school graduate with the direction, skills, and grit for postsecondary success. Students will need 24 credits to graduate. Students in the graduating classes of (2024, 2025, 2026, and 2027) are required to meet the following requirements: English 4, Oral Comm., .5, Math 3, Social Science 3, Science 3, Health/PE 1.5, Computer, Fine Arts 1, Financial Literacy .5, plus 6.5 units of electives. Students are responsible for completing these requirements.

Beginning with the Class of 2028 and subsequent classes, students are required to meet the following new requirements: English 4, Oral Comm., .5, Math 3, Social Science 3, Science 3, Health/PE 1.5, STEM 1, Fine Arts 1, Financial Literacy .5, plus 6.5 units of electives of which 4.5 of those credits align with the student's Individual Plan of Study or IPS. Students are also required to achieve two post-secondary assets. Students, are responsible for completing these requirements.

A transfer student entering USD 307 must attend high school in the district for the entire second semester of his/her senior year to be eligible for a diploma.

Students who transfer out of district during their senior year and who wish to be eligible for a USD 307 diploma must have attended high school in USD 307 for a minimum of four semesters in grades 10,11,12 and must complete the USD 307 required course of study and credit requirement within that same transfer year.

Enrollment in correspondence courses for high school credit requires approval in advance from the building principal. Correspondence courses will not be accepted as substitutes for required courses for graduation. Only correspondence credit will be accepted from schools and institutions approved by the State Board of Education.

Student Class Loads
1. Students will be required to enroll in a full schedule.
2. Exceptions to a full schedule are described under Early Graduation and/or Flex Schedule.

USD 307 GRADUATION REQUIREMENTS

The following are the requirements to obtain a high school diploma.

Highlighted below are the New Graduation Requirements Beginning with Class of 2028

Subject Area	# of Credits	Courses Which Meet Requirements
English	4	English 1 (1),English 2 (1), English 3 (1), English 4 (1), English 4 (1), English Composition (1), Composition (II)
SOCIAL SCIENCE -to include 1 credit in World History -to include 1 credit in American History -to include 1 credit in American Government -to include 1	3	World History (1), American History (1), US Government(1)
MATHEMATICS	3	Algebra 1 (1), Geometry (1), Algebra/Geometry (1), Transition Algebra (1), Algebra 2 (1), SATC College Algebra (1), Financial Math (1),
NATURAL SCIENCE -to include 1 credit in Earth & Space Science -to include 1 credit in Biology	3	Earth & Space Science (1), Biology 1 (1), Physical Science (1), Chemistry (1), Physics (1), Human Anatomy & Physiology (1) Food Sci. (1), Animal Sci. (1), Horticulture (1)
PHYSICAL EDUCATION	.5	PE 1 (.5)
HEALTH	.5	Health (.5)
ORAL COMMUNICATIONS	.5	Speech (.5)
COMPUTER or STEM (Beginning w/Class of 2028)	.5	Computer Applications 1
FINE ARTS	1	Any/All Music (1), Any/All Theatre (1), Spanish 1, Spanish 2
BUSINESS	.5	Financial Literacy (.5) (Must Pass to Graduate)
ELECTIVES	6.5	4.5 Credits Must Align w/IPS (Beginning w/Class of 2028)

EARLY GRADUATION

Students who have an updated Individual Plan of Study (IPS) and complete all state and local graduation requirements may request permission to graduate early. Students must submit an application by April 1 of their junior year and must have attended USD 307 the two semesters prior to the semester of application, unless a waiver is granted by the principal. The student and parents shall consult with the student's counselor to develop a plan and for more detailed information regarding the BOE policy.

FLEX SCHEDULE GUIDELINES

Seniors who are on schedule to graduate in eight semesters may apply no later than April 1 of their junior year (unless a waiver is granted by the principal) for permission to attend school part-time (flex schedule) the second semester of their senior year. All completed applications with student and parental signatures shall be submitted to the counselor and will be reviewed by the administration and the counselor. Successful applicants are expected to have an updated Individual Plan of Study and be in good standing with the school. A meeting shall be held which shall include parent(s) or guardian(s), the principal or designee, and the student. If approved, the application shall be signed by all involved parties and filed in the student's permanent file. Seniors who attend part-time second semester are to be in the building only during class, meeting with a teacher, or during lunch block. Seniors attending part-time during second semester shall be allowed to participate in senior class activities and must be passing at least five new subjects of unit weight or they will not be eligible for KSHSAA activities.

POSTSECONDARY ASSET GRADUATION

REQUIREMENT (BEGINNING with CLASS of 2028)

Total credits required is 24. Beginning w/ Class of 2028; 2 Post Secondary assets are required

New State Requirement Beginning with the Class of 2028: Students are required to meet two or more postsecondary assets from either the academic or career and real world categories. The selected assets must align with the student's Individual Plan of Study or IPS.

ACADEMIC CATEGORY	CAREER & REAL WORLD CATEGORY
*9+ College Hours *Completing Kansas Scholars Curriculum *State Assessment Scores of 3 or 4 for Math, ELA, and Science, (Demonstrating College Readiness) *Advanced Placement Exam (3+) *WorkKey Levels (Silver or Higher) *ACT Composite (Score of 21 or Higher) *SAT Score (1200 or Higher) *ASVAB per Requirements of Military Branch	*Two or More High School Athletics/Activities *40 or more Community Service Hours *90% Attendance in High School *Client-Centered Projects *Youth Apprenticeships *Workplace Learning Experience Directly Related to a Student's IPS * Senior Project or Senior Exit Interview *CTE Scholar *Seal of Bi-literacy *Industry-Recognized Certification *Eagle Scout or Gold Scout *4-H Kansas Key Award

New State Requirement Beginning with the Class of 2028: Students are required to meet two or more postsecondary assets from either the academic or career and real world categories. The selected assets must align with the student's Individual Plan of Study or IPS.

It is crucial for students and guardians to work with your high school counselor in ensure your student has achieved two or more postsecondary assets listed above. Verification: The following will require the student and guardian to produce documentation to the student's counselor in order to be verified: 9+ College Hours (Not taken for concurrent or dual credit) 40 or more Community Service Hours (Conducted Outside of School) Client-Centered Projects (Conducted Outside of School) Workplace Learning Experience Directly Related to a Student's IPS (Conducted Outside of School) Eagle Scout or Gold Scout 4-H Kansas Key Award.

GRADING SYSTEM AND ELIGIBILITY

Class Ranks All students are ranked with peers of their current grade level at the close of each semester. Class ranks are calculated and locked in January and June. Late grade changes made after the ranks are locked in will affect the student's weighted or unweighted GPA, but they will not change the student's rank until class ranks are re-run at the end of the next semester.

Grading System
The grading system for the Ell-Saline High School is as follows:
A 90-100 4 grade points
B 80-89 3 grade points
C 70-79 2 grade points
D 60-69 1 grade point
F Below 60 0 grade points

Your Grade Point Average
Figuring your grade point average: The grade point average (GPA) represents the average number of grade points a student earns for each graded high school course. To calculate your GPA, use the formula below.

Take the # of grades and multiply that number times the grade point value.

Your grades	Grade point value	Total
# of A's	___3__ X __4__ =	__12__
# of B's	___3__ X __3__ =	___9__
# of C's	___1__ X __2__ =	___2__
# of D's	___1__ X __1__ =	___1__
Total	(8)	(24)

Add your grade points __24____ Total grade points
Divide the # of grade points by the total # of grades
Total # of grade points __24____/ divided by # of grades __8___ = 3.0 GPA

Why is my Grade Point Average Important?
Although there are always exceptions, many times your grade point average (GPA) reflects how seriously you have taken your high school courses. Your GPA is often a reflection of your study habits and dedication. It is important to try to earn the highest GPA possible throughout your four years of school. This cumulative GPA will be used by colleges, universities, technical schools, and even employers for a variety of reasons.

• **Admission Requirements** – A good high school GPA could help you get admitted to your school of choice. Post-secondary institutions have found that a student's high school GPA is a very good predictor of college success. For this reason, many institutions require that students enter their university with a qualifying GPA. If a student applies with a GPA that does not qualify for admission, that student may be admitted on a probationary basis or sometimes not at all.

• **Scholarships -** Another important reason to maintain a solid GPA is that many grant and scholarship organizations require a "B" average or higher when considering applicants. If your cumulative GPA falls below this range (3.0 or below) you will find that scholarship and/or award monies will be difficult to obtain.

• **Resumes -** The average company receives numerous resumes for every one job opening it posts. With that kind of competition, it is important that your resume reflect your abilities and skills. A strong GPA will not only show employers your dedication and commitment to learning, but it will also be measurable evidence of subject mastery and proven academic achievement overtime.

Remember, whether you have plans to pursue a professional/technical career or plan to land a winning job immediately after graduation, a strong GPA will help equip you for success.

COLLEGE AND CAREER READINESS TESTING

Preparatory College Testing

PRE-ACT is a 9th grade multiple-choice assessment. The results help predict performance on the ACT test, PreACT simulates the ACT testing experience within a shorter test window on all four ACT test subjects: English (30 minutes), math (40 minutes), reading (30 minutes), and science (30 minutes).

www.act.org/preact

The PSAT or the Preliminary SAT provides practice for the SAT Reasoning Test. Students should take this test in the fall of their junior year. This test measures skills in critical reading, math problem solving, and writing. It is used to offer feedback on strengths and weaknesses of skills necessary for college.

The PSAT is also connected with the National Merit Scholarship Corporation (NMSC) and the National Achievement Scholarship Program.

The National Merit Program is open to all students who meet entry requirements. You must score at the stated cut off on the PSAT in order to be considered. Students who qualify for recognition in the National Merit Program are notified through their schools in September.

The National Achievement Scholarship Program is an academic competition in which only black American high school students participate. Students must register for this program by marking Section 14 of the PSAT/NMSQT Answer Sheet. Students who qualify for recognition in the National Achievement Scholarship program are notified through their schools in September.

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The most common reason students take the PSAT is
• To receive feedback on your strengths and weaknesses on skills necessary for college study. You can then focus your preparation on those areas that could most benefit from additional study or practice.
• To see how your performance on an admissions test might compare with that of others applying to college.
• To help prepare for the SAT. You can become familiar with the kinds of questions and the exact directions you will see on the SAT.

www.collegeboard.com

The American College Test (ACT) assesses skill level mastery in English, Math, Reading Comprehension, and Science. Test scores weigh heavily in many admission and scholarship decisions. ACT scores along with high school grades, class rank, high school activities, and community service are the main information colleges use to identify students who would best benefit from their programs. They also use the information for class placements and scholarships.

It is vital to understand the ACT test and how this will affect your future. In order to plan for your future, you must value personal success. It is never too soon to start exploring your options.

It is important to start taking the ACT early. It is a good idea to start your sophomore year in order to get a feel for the layout and format of the test. Before you take the test, it is vital that you read about the test and do a practice test to find out where your weaknesses are and what areas might cause you trouble. Then take some time to focus on those areas so that you are ready to take the test.

You may take the ACT test as many times as you want (and if you take it as a sophomore it would be wise to take it a time or two again.) The more you learn in school, the more knowledge you will have to improve your ACT scores.

College Readiness

ACT has identified the minimum score needed on each ACT test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding first-year college course.

ACT Test	ACT Benchmark Score	College Course
English	18	English Composition 1
Math	22	College Algebra
Reading	22	Social Sciences
Science	23	Biology
STEM	26	STEM
ELA	20	English Composition 1

~ ~Source: www.act.org 2022

*** To increase your college readiness, consider taking additional rigorous coursework before you enter college. When you meet with your counselor to plan your high school curriculum, select courses that are appropriate for your Individual Plan of Study (IPS). It is important that you take 4 years of MATH AND SCIENCE in order to ensure success.

Academic Support Programs

ACT Prep – Ell-Saline
Grade Level: 11, 12
Course Length: Full Year
Prerequisite: None
ACT Prep is an optional, non-credit-bearing course offered primarily to juniors and seniors who are preparing for the ACT, a critical component of college admissions and scholarship opportunities. This course focuses on enhancing skills in English, math, reading, science, and writing while providing students with proven test-taking strategies. Through practice questions, timed tests, and personalized instruction, students gain the confidence and tools needed to perform their best on the ACT and achieve their post-secondary goals.

High School (HS) Study Hall – Ell-Saline
Grade Level: 9,10, 11, 12
Course Length: Full Year
Prerequisite: None
Additional homework support for core classes to work independently under adult supervision to help when a child is uncertain of how to complete tasks and needs additional time to complete. This course is in addition to the school wide seminar. **Must be recommended by the Instructor.**

Job Shadowing– Ell-Saline
Grade Level: 11, 12
Course Length:
Prerequisite: Counselor Approval
Job shadowing is not a course but an opportunity for students to explore a career of interest by observing professionals in their workplace. This experience provides valuable insight into daily responsibilities, work environments, and potential career paths. Students can be excused from school for a half day for shadowing. If a full day is needed; please schedule a "non school" day. Families will provide transportation to the shadowing. Job Shadowing is only permitted once a semester. Students are responsible for securing a job shadowing location and completing the necessary paperwork. If assistance is needed, students may contact their school counselor or principal for support in arranging this opportunity.

Intervention – Ell-Saline
Grade Level: 9,10, 11, 12
Course Length: Full Year
Prerequisite: None
Intervention is a required, non-credit-bearing course designed to provide students with targeted academic support in core subjects such as math and English. Utilizing the IXL program, a comprehensive online learning platform, students engage in personalized, skill-based practice to strengthen their understanding and mastery of essential concepts. This course allows students to work at their own pace, addressing individual learning needs and reinforcing critical skills to ensure academic success.

Seminar– Ell-Saline

Grade Level: 9,10, 11, 12
Course Length: Full Year
Prerequisite: None
Seminar is a required, non-credit-bearing course that serves as a dedicated time within the academic day for students to focus on academic growth and organization. During this period, students receive support for assignments, prepare for upcoming assessments, and develop effective study and time management strategies. Seminar provides an opportunity for individualized attention from teachers, fostering a productive environment for academic progress and success.

Teacher Aide– Ell-Saline

Grade Level: 9,10, 11, 12
Course Length: Full Year
Prerequisite: Teacher and Principal approval
Student Aide is a non-credit, service-based opportunity for students to assist teachers or staff within the school. This role allows students to develop organizational, communication, and time management skills while providing valuable support in a classroom or office setting. Responsibilities may include helping with classroom tasks, organizing materials, or assisting with basic duties as directed by the supervising teacher or staff member. When not assisting the teacher there is an expectation that the student will be working on personal assignments, scholarships, Xello or an academic area to further support the student. Remember this is a class so cell phones are not to be utilized during this time.

AGRICULTURAL SCIENCE

Agribusiness Management A – Credit: .5 Ell Saline
Agribusiness Management B – Credit: .5
Grade Level: 11, 12
Course Length: Full Year
Prerequisite: None
Students learn about the anatomy, diet, characteristics, common ailments, preventative health measures, and cost of caring for various agricultural animals (horses, pigs, cattle, and chickens). This is also for students pursuing careers in non-farm animal care, veterinary medicine, zoology, animal breeding, as well as agriculture. Students in Animal Science learn the unique biology of different animals, terminology of the livestock industry, methods of reproduction, and desirable traits of high-quality animals when judging or purchasing. FFA participation is an integral part of this course and provides opportunities for leadership, teamwork, and applied skills outside the classroom.

Agricultural Leadership and Communications A – Credit: .5 Ell Saline
Agricultural Leadership and Communications B – Credit: .5
Grade Level: 11,12
Course Length: Full Year
Prerequisite: Two other Agriculture Classes (Cannot be overridden)
Agriculture Leadership and Communications is an application level course designed for juniors and seniors who have taken at least two years of agricultural classes at the high school level. Within the course, students will explore how communication is used in professional settings within the agricultural industry, as well as develop their own leadership skills. The course will also cover the basics of leadership science. (This class is offered but not on the schedule every year. Ag. Lead. and Comm. rotates with Ag. Business every other year- Visit with the Agriculture teacher to see if this course is being offered this year or next year)

Agriscience A – Credit: .5 Ell Saline
Agriscience B – Credit: .5
Grade Level: 9th (10th with Permission)
Course Length: Full Year
Prerequisite: Exploratory Ag (Nominal, can be overridden)
Agriscience (also often called Intro to Agriculture, Freshmen Agriculture, or Ag Science) is the general agriculture class that serves as an introduction to the Career and Technical Education pathways of Comprehensive Agriculture, Animal Science and Horticulture. This class employs the three circle model, and will prepare you for all three areas: Classroom/Laboratory, FFA, and SAE. In this class you will learn the basics of many parts of the Agriculture Industry, General FFA information, Career Exploration, Leadership Development and preparation for Career/Leadership Development Events.

Animal Science A – Credit: .5 Ell Saline
Animal Science B – Credit: .5
Grade Level: 10,11,12
Course Length: Full Year
Prerequisite: Agriscience (Nominal, can be overridden)
Animal Science delves into the study of using animals for Agricultural purposes. This includes deep dives into individual species and breeds, as well as covering various aspects of the Animal Production Industry. This class will also cover career exploration in Animal Science, as well as ethics and regulations of the industry. Additionally, Leadership Development skills will be reinforced. (This course can be counted as a science credit)

Food Science A– Credit: .5 Ell-Saline
Food Science B– Credit: .5
Grade Level:10, 11, 12
Course Length: Full Year
Prerequisite: None
Food Science is aptly defined as the science of food. For a more detailed description, this class will be covering the basics of the Food Science Industry, beginning with the basis of nutrition, as well as safety and sanitation of a Food Science Laboratory. Then, the class will move on to cover the history and development of different genres and categories of foods. Finally, it will end by covering the business side of the Food Science Industry. (This course can be counted as a science credit)

Horticulture A– Credit: .5 Ell-Saline
Horticulture B– Credit: .5
Grade Level:10, 11, 12
Course Length: Full Year
Prerequisite: Agriscience (Nominal, can be overridden)
Horticulture is the practice of growing plants for use. Horticulture will focus upon the biological sciences driving the industry, in structures and taxonomies as well as growth processes and plant propagation. We will also explore greenhouse and other horticultural management. This class will also include career exploration as well as leadership skill development. (This course can be counted as a science credit)

Wildlife Management A– Credit: .5 Ell-Saline
Natural Resource Management B– Credit: .5
Grade Level:10, 11, 12
Course Length: Full Year
Prerequisite: Agriscience (Nominal, can be overridden)
Natural Resources. This course is designed to teach students about the natural resources around them, how they are used every day, how we manage and preserve them, and the industry around them. Wildlife Management. This course revolves around the management of wildlife as a resource and an industry. It goes in depth in wildlife industries as well as regulations, careers and management. This course is offered but not on the schedule every year.

BUSINESS/COMPUTER LITERACY/JOURNALISM

Accounting A Credit: .5 Ell Saline
Accounting B – Credit: .5
Grade Level: 10, 11, 12
Course Length: Full Year
Prerequisite: None
Accounting 1 is a course designed to help students attain knowledge and develop skills in keeping records for the management of individual and commercial business affairs. Program goals will include accounting as it relates to careers, accounting terminology, and understanding accounting principles and procedures. This course is highly recommended for anyone interested in majoring in business in college. Students will receive hands-on experience with the computer and will work various business-related problems that demonstrate the problem-solving capabilities of a spreadsheet and a computerized general ledger. Concurrent college credit is available for this class through SATC courses. **Students may be required to purchase additional supplies.**

Business Communications – Credit: .5 Ell Saline
Grade Level: 9, 10, 11, 12
Course Length: Semester
Prerequisite: None
This is a core course designed to give students an overview of the business, marketing and finance career cluster 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.

Business Essentials – Credit: .5 Ell Saline
Grade Level: 9, 10, 11, 12
Course Length: Semester
Prerequisite: None
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.

Business Law – Credit: .5 Ell-Saline
Grade Level: 11, 12
Course Length: Semester
Prerequisite: Business Essentials
Business Law is a Technical Level. Business Law identifies and promotes the skills needed in law and law associated professions. Topics include the origins, ethics structures, and institutions of law. It concentrates on several types of law including criminal, civil, consumer, contract, property, agency, employment, family and environmental law. The intent of the class is to allow areas of concentration once all the competencies are met.

Computer Applications – Credit: .5 Ell-Saline
Grade Level: 9, 10, 11, 12
Course Length: Semester
Prerequisite: None
Computer applications is an introductory level course in which students acquire knowledge of and experience the proper and efficient use of previously written software packages, most commonly Microsoft 2019. This course explores a wide range of applications, including (but not limited to) word-processing, spreadsheet, graphics, and database programs. It may also include the use of electronic mail and desktop publishing as well as computer security. Students will be asked to present to the class their work most notably a PowerPoint presentation.

Computer Graphics– Credit: .5 Ell-Saline
Grade Level: 9, 10, 11, 12
Course Length: Semester
Prerequisite: None
This class will center on digital photography as well as the computer program, Photoshop. Students will learn how to manipulate and enhance digital images, including scanning and retouching for output to a variety of media. Students will learn to shoot, download, save and print photos using Mac technology. At the end of the course, students may apply for a position on the school newspaper or yearbook as a staff photographer.

Digital Media Imagining A – Credit: .5 Ell-Saline
Digital Media Imagining B – Credit: .5
Grade Level: 10, 11, 12
Course Length: Full Year
Prerequisite: Approval of Instructor
Digital Media Production (Yearbook) is the class that produces the high school yearbook. Students plan and design pages, write copy, edit material submitted by staff writers, artists and photographers, create pages using desktop publishing and digital photography, and carry out the other editorial duties. Selling advertising is required. *All semester assignments must be completed to receive a passing grade.

Entrepreneurship – Credit: .5 Ell-Saline

Grade Level:10, 11, 12
Course Length: Semester
Prerequisite: Business Essentials
This course is designed to give students a basic awareness of what is involved in creating a new business venture. Students will examine entrepreneurial opportunities and will identify types of business ownership. Students will operate an in-school business and through this activity be exposed to the basics of planning, organizing, financing, product selection, costs, pricing policies, location selection and design, employee development, legal aspects, starting, operating, expanding, and managing a small business venture. Students will also gain knowledge of how the social, political, economic, and legal environment affect business operations. This course is for students considering majoring in business in college or for anyone interested in starting his/her own business. An important goal of this course is to encourage the students to think from the employer's standpoint. At the completion of this course the students will have completed a sample business plan and have a greater understanding of entrepreneurship by taking responsibility for the success of an actual business within the school

Financial Literacy – Credit: .5 Ell Saline

Grade Level:10, 11, 12
Course Length: Semester
Prerequisite: None
This is a course which allows students to acquire a broader background knowledge dealing with money management and consumer issues. Topics covered include insurance, housing, money management, transportation, banking, food and clothing purchases, advertising, credit and investing.

Sports and Entertainment Marketing – Credit: .5 Ell Saline

Grade Level:10, 11, 12
Course Length: Semester
Prerequisite: None
Sports and Entertainment Marketing courses introduce students to and help them refine marketing and management functions and tasks that can be applied in amateur or professional sports or sporting events, entertainment or entertainment events, and the sales or rental of supplies and equipment.

ENGLISH

9th	English 1
10th	English 2
11th	English 3
12th	English 4 **or** Comp I, Comp II

Students must earn eight semesters of English credit and one semester of oral communications credit.

Comp I – Credit: .5 Ell Saline
Comp II – Credit: .5
Grade Level: 12
Course Length: Full Year
Prerequisite: none
Are courses designed to help students become skilled readers of increasingly complex prose written in a variety of periods, disciplines, and rhetorical contexts; to help students become skilled writers who can compose for a variety of purposes; and to enable students to write prose that is rich and complex enough for mature readers. Students enrolled in this advanced course deal with fiction and non-fiction of the past and present.

This course is for seniors who enjoy the challenge of the writing process; and love to read challenging literature, analyze and discuss it with classmates, and write about it. After developing their own ideas about a literary piece, students refine and deepen their insights through discussion with classmates. Students strive for a high level of sophistication in language perception and in literary analysis.

This particular course is organized around a sequence of assignments devoted to writing in particular forms (argumentative, analytical, expository) that are the basis of academic and professional communication. In-class responses will be employed to help students become increasingly aware of themselves as writers, and emulate effective techniques used by other writers. These two course are concurrent courses. The student is expected to enroll with Salina Area Technical College(SATC) and pay the course fee to SATC.

English 1 A – Credit: .5 Ell Saline
English 1 B – Credit: .5
Grade Level: 9
Course Length: Full Year
Prerequisite: none
The student in English I (9th grade) continues to develop many basic skills in reading and writing through the English standards set forth by the Kansas Board of Education. By reading various types of literature such as the short story, drama, and the novel, the student learns and develops understanding of literary elements, figurative language, and other English related elements. The writing portion of the class emphasizes the study of traditional grammar and sentence structure by using the six traits of writing dictated by the Kansas Board of Education. In essence, this English year is a pre-cursor to the sophomore mandated reading and writing assessments.

English 2 A – Credit: .5 Ell Saline
English 2 B – Credit: .5
Grade Level: 10
Course Length: Full Year
Prerequisite: None
The state's Board of Education has mandated that all high school students are required to take a state reading assessment. Our school principal and local school BOE requires all sophomores to take the reading assessment their second year in high school; therefore, this sophomore year in English is solely devoted to the student's exposure and mastery of a variety of elements on the state required test. Various readings when combined with instruction on literary elements, figurative language, etc. will promote understanding and mastery on this state mandated test. The goal for each sophomore student is to do his or her best on this test. Effort and improvement are key on this assessment. Students who work very hard and apply the lessons that are taught in the classroom will achieve success on this test given in March.

English 3 A – Credit: .5 Ell Saline
English 3 B – Credit: .5
Grade Level: 11
Course Length: Full Year
Prerequisite: None
Junior English is a course designed to introduce juniors to classical literature of the past and present, coupled with shorter non-fiction essays, to analyze and discuss with classmates. Through analysis and discussion, students will refine and deepen their literary insights. Daily grammar "bell-ringers" will help students become familiar with proper grammar practices. These, along with practice ACT passages, will prepare them for a more comfortable and successful ACT.

English 4 A – Credit: .5 Ell Saline
English 4 B – Credit: .5
Grade Level: 11
Course Length: Full Year
Prerequisite: None
Senior English is a course designed to introduce seniors to classical literature of the past and present, to analyze and discuss it with classmates, and write about it. After developing their own ideas about a work of literature, students will refine and deepen their insights through discussion with classmates. Current-event discussions and written reactions will be used to tie recurring literary themes to modern-day occurrences, in an attempt to help bridge the gap to more effective written and oral communication for the workplace.

FAMILY & CONSUMER SCIENCE

Culinary Essentials– Credit: .5 Ell Saline
Grade Level: 9, 10, 11, 12
Course Length: Semester
Prerequisite: None
Culinary Essentials is an entry-level course for students with a limited background in food prep. Students will prepare for job opportunities in food service through laboratory experiences. We will combine a focus of nutrition with the coverage of food preparation skills, teamwork and leadership skills that can apply to the world of work. Course units will include safety and sanitation (food science), work habits, healthful eating, and some consumer skills. Students will develop skills to select, safely prepare, and plate the food.

Career and Life Planning– Credit: .5 Ell-Saline
Grade Level: 9, 10, 11, 12
Course Length: Semester
Prerequisite: None
This course will introduce students to the skills and strategies needed to be focused, productive individuals. Emphasis is placed on goal setting, decision making and time and personal management. Development of workplace skills, knowledge and attitudes needed to be successful in various career, community and family settings will be incorporated throughout this course.

Family Studies– Credit: .5 Ell Saline
Grade Level: 9, 10, 11, 12
Course Length: Semester
Prerequisite: None
Family Studies emphasizes building and maintaining healthy interpersonal relationships among family members and other members of society. Topics may include: various stages of life, family units and organization, human sexuality and reproduction, social/dating practices, and parenthood. Individual self-development, career development, personal awareness, and preparation for the responsibilities of a family member and wage earner may be included.

Human Growth and Development– Credit: .5 Ell Saline

Grade Level: 9, 10, 11, 12
Course Length: Semester
Prerequisite: None

A one semester technical level course open to grades 9-12. Students in this course will study human development across the life span. Topics include pregnancy, prenatal development, brain development, childhood, adolescence, and aging and family crisis. This course is recommended as a technical level course for other career pathways.

Intro to Family and Consumer Science– Credit: .5 Ell-Saline

Grade Level: 9, 10, 11, 12
Course Length: Semester
Prerequisite: None

Introduction to Family and Consumer Sciences offers a look into the many occupations linked to providing for the basic needs of children, individuals, and families. Occupations may include nutrition educator, child care provider, social worker, foster parent, credit counselor, geriatric care provider, senior citizen care director, food service provider, restaurant manager, culinary artists, interior designer, fashion production and design, event planner and teacher.

Nutrition & Wellness– Credit: .5 Ell Saline

Grade Level: 9, 10, 11, 12
Course Length: Semester
Prerequisite: None

This course explores the relationship of basic nutrition and wellness across the lifespan. It includes an indepth look at special dietary needs, regulations, technology, and the global impact on nutrition and food choices. The course supports the Family & Community Services and Restaurant & Event Management pathways but is also relevant to students wanting to learn more about how to maintain lifelong health through good diet and nutrition; this includes students who may want to be athletes or work in careers related to athletics, such as fitness trainers, physical education instructors, sports nutritionists, etc. **(Food preparation is not part of this course.)**

FINE ARTS

Art 1 A – Credit: .5 Ell Saline
Art 1 B – Credit: .5
Grade Level: 9, 10, 11, 12
Course Length: Full Year
Prerequisite: None
Students will get an introduction to a variety of art medias as well as develop as sense of awareness and appreciation for the arts. Students will also be introduced to the basics of the elements and principals of art. Learning will be done through hands-on projects and experiences as well as through art history lessons. Students will receive a supply list on the first day of class.

Art 2 A – Credit: .5 Ell Saline
Art 2 B – Credit: .5
Grade Level: 10, 11, 12
Course Length: Full Year
Prerequisite: None
Students will increase their knowledge and artistic skills through the familiarity of different medias as well as introductions to new medias. There will be more exploration of self-directed projects and opportunities, as well as learning through art history. Students will receive a supply list on the first day of class.

Art 3 A – Credit: .5 Ell Saline
Art 3 B – Credit: .5
Grade Level: 11, 12
Course Length: Full Year
Prerequisite: None
Students will be encouraged to express themselves through a greater emphasis on self-directed projects and development of the student's visual awareness. Various media, techniques, and art history projects will be explored. Students will receive a supply list on the first day of class.

Art 4 A – Credit: .5 Ell Saline
Art 4 B – Credit: .5
Grade Level: 12
Course Length: Full Year
Prerequisite: None
Higher-level course, for experienced art students. Student will engage in expressive and meaningful projects that use their learned artistic skills as well as their knowledge of the elements and principals of art to produce artwork that is rich in originality, creativity, and artisanship. Students will also use their knowledge of art history and different medias to guide their artistic choices and direction. Students will receive a supply list on the first day of class.

High School Vocal A – Credit: .5 Ell Saline
High School Vocal B – Credit: .5
Grade Level: 9, 10, 11, 12
Course Length: Full Year
Prerequisite: None
A class focusing on production of music of many styles, which can include choir, ensembles, folk groups, solos, or other production experiences. Students participate in all rehearsals and vocal performances, during and after school hours.

Music Technology A – Credit: .5 Ell Saline
Music Technology B – Credit: .5
Grade Level: 9, 10, 11, 12
Course Length: Full Year
Prerequisite: None
In-depth and comprehensive study of the fundamentals of music, music analysis, and performance. Students will learn to recognize, understand, and describe the basic materials of music that are heard or presented in a score. Students will improve aural, sight-reading, written, compositional, and analytical skills through listening, performance, and written, creative, and analytical exercises.

INDUSTRIAL ARTS

Carpentry A – Credit: .5 Ell Saline
Carpentry B – Credit: .5
Grade Level: 9, 10, 11, 12
Course Length: Full Year
Prerequisite: None- Intro to Industrial Technology is recommended
This course provides a general knowledge of wood and its various applications. Hand tools and machine tools are studied and used. Students develop knowledge and the ability to design and construct projects in woodworking. **Students are required to pay a class fee, plus the cost of materials used in projects.** The amount depends on the project selected by the student.

Furniture & Cabinetry Fabrication (Woods II) A – Credit: .5 Ell Saline
Furniture & Cabinetry Fabrication (Woods II) B– Credit: .5
Grade Level: 10, 11, 12
Course Length: Full Year
Prerequisite: Woodworking Principles (Woods I) or Carpentry
Course Description: This one-year course is designed for the student who wishes to improve their woodworking skills with advanced joinery and building techniques. A year-long project will be chosen using more challenging/advanced joinery and operations. This course builds upon the pre-requisite, Woodworking Principles course. This is the advanced, application level course in the Construction Pathway. STUDENTS WILL BE REQUIRED TO PAY FOR THEIR PROJECTS/MATERIALS .

Production Methods I Mechanical A – Credit: .5 Ell Saline
Production Methods I Mechanical B – Credit: .5
Grade Level: 9, 10, 11, 12
Course Length: Full Year
Prerequisite: None- Intro to Industrial Technology is recommended
A technical-level course designed to expose students to the many different materials and processes used in industry in the manufacture of goods, materials, tools, machinery and structures. This will include instruction of the internal combustion engine, automotive mechanical systems, maintenance and repair. STUDENTS WILL BE REQUIRED TO PAY FOR THEIR PROJECTS/MATERIALS. The amount depends on the project selected by the student.

Wood Working Principles A – Credit: .5 Ell Saline
Wood Working Principles B – Credit: .5
Grade Level: 9, 10, 11, 12
Course Length: Full Year
Prerequisite: None- Intro to Industrial Technology is recommended
This course provides a general knowledge of wood and its various applications. Hand tools and machine tools are studied and used. Students develop knowledge and the ability to design and construct projects in woodworking. Students are required to pay a class fee, plus the cost of materials used in projects. The amount depends on the project selected by the student.

Production Welding 1 A – Credit: .5 Ell Saline
Production Welding 1 B – Credit: .5
Grade Level: 9, 10, 11, 12
Course Length: Full Year
Prerequisite: None- Intro to Industrial Technology is recommended
This course provides a general knowledge of wood and its various applications. Hand tools and machine tools are studied and used. Students develop knowledge and the ability to design and construct projects in woodworking. **Students are required to pay a class fee, plus the cost of materials used in projects.** The amount depends on the project selected by the student.

Production Welding 2 A – Credit: .5 Ell Saline
Production Welding 2 B – Credit: .5
Grade Level: 10, 11, 12
Course Length: Full Year
Prerequisite: Production Welding 1
This year long course is designed for those students interested in the career of welding. Emphasis on advanced welding skills, procedures and planning on a larger scale project(s) is required. Students are required to meet standards in GMAW and SMAW as well as Oxy/Fuel and GTAW. This is one of the application level courses in the Production Pathway. The pre-requisite for this course is the Production Welding I course. STUDENTS WILL BE REQUIRED TO PAY FOR THEIR PROJECTS/MATERIALS .

Math

Algebra 1 A – Credit: .5 Ell Saline
Algebra 1 B – Credit: .5
Grade Level: 9, 10
Course Length: Full Year
Prerequisite: None
An introductory algebra course that includes the following concepts: Numerical, computational, algebraic, and geometric concepts and procedures; data analysis, real number system, quantities, expressions; creating, interpreting, and reasoning with equations, inequalities, and functions; polynomials, linear, quadratic and exponential models; interpreting and quantifying statistics and probabilities. Students will apply these concepts in real world applications, to interpret and solve problems, and to communicate and demonstrate their understanding and knowledge. This class will also help students develop their problem-solving and critical thinking skills.

Algebra 2 A – Credit: .5 Ell Saline
Algebra 2 B – Credit: .5
Grade Level: 10, 11
Course Length: Full Year
Prerequisite: Algebra 1, Geometry
The primary focus of this course is to provide students with further algebraic concepts while reinforcing the algebraic and some geometric concepts learned in earlier courses. This course includes such topics as algebraic expressions, functions, equations, linear systems, functions of quadratics, polynomials, exponential and logarithmic equations, and rational expressions and equations. This course is designed to increase the high school level knowledge of algebraic concepts and prepare students for post-secondary education.

College Algebra 1 A – Credit: .5 Ell Saline
College Algebra B – Credit: .5
Grade Level: 12
Course Length: Full Year
Prerequisite: 19+ math ACT score OR 10th grade math State Assessment score of Level 3+
The primary focus of this course is to present students the algebraic skills students need to be successful in their high school career. These skills include working with one or two variable equations and inequalities and their graphs; patterns; number systems; exponents, quadratics, rational expressions and their functions. This course will provide opportunities for the students to develop logical thinking skills as well as skills using graphing calculators in various situations and applications. This course can be taken for dual credit.

Consumer Math A – Credit: .5 Ell Saline
Consumer Math B – Credit: .5
Grade Level: 11, 12
Course Length: Full Year
Prerequisite: None
The primary focus of this course is to present students the algebraic skills students need to be successful in their high school career. These skills include working with one or two variable equations and inequalities and their graphs; patterns; number systems; exponents, quadratics, rational expressions and their functions. This course will provide opportunities for the students to develop logical thinking skills as well as skills using graphing calculators in various situations and applications. This course covers all of the essential topics necessary to become a financially capable student.

Financial Math A – Credit: .5 Ell Saline
Financial Math B – Credit: .5
Grade Level: 11, 12
Course Length: Full Year
Prerequisite: : Algebra 1, Geometry, Algebra 2 or Algebra 2/Trig
The primary focus of this course is to provide students with further algebraic applications while reinforcing the algebraic concepts learned in earlier courses. Financial math is a course that will enable students to make sound financial decisions dealing with personal or business financial management issues. Topics to be covered include compound interest of loans and investments, consumer credit issues, various payment methods, insurance, the stock market, figuring taxes, inflation and deflation, and other topics in economics and business. This course is designed to increase the high school level knowledge of algebraic concepts and, in part, prepare students for admission to a university.

Foundations of Algebra 1 A – Credit: .5 Ell Saline
Foundations of Algebra 1 B – Credit: .5
Grade Level: 9
Course Length: Full Year
Prerequisite: Teacher Recommendation Required
An introductory algebra course that includes the following concepts: Numerical, computational, algebraic, and geometric concepts and procedures; data analysis, real number system, quantities, expressions; creating, interpreting, and reasoning with equations, inequalities, and functions; polynomials, linear, quadratic and exponential models; interpreting and quantifying statistics and probabilities. Students will apply these concepts in real world applications, to interpret and solve problems, and to communicate and demonstrate their understanding and knowledge. This class will also help students develop their problem-solving and critical thinking skills.

Geometry A – Credit: .5 Ell Saline
Geometry B – Credit: .5
Grade Level: 10
Course Length: Full Year
Prerequisite: Algebra 1
The primary focus of this course is to present students the geometric skills students need to be successful in their high school career, and well as reinforcing their algebraic skills. This course includes such topics as parallel and perpendicular lines, working with angles and triangles, similar and congruent triangles, quadrilaterals, right triangles with trigonometry, area and volume, and working with circles. This course will also provide opportunities for the students to develop logical thinking skills and be presented to the formal proof.

Oral Communication

Speech – Credit: .5 Ell-Saline
Grade Level: 9, 10, 11, 12
Course Length: Full Year
Prerequisite: none
This course is designed not only help the hesitant speaker to speak with conviction, but also empower good speakers to more powerfully and rhetorically address an audience. Emphasis is placed on small-group activities, employing verbal and non-verbal communication. Starting with creating a good thesis, students will learn the fundamental basics to all good public and private speaking, including poise, movement, voice improvement, and confidence.

PHYSICAL EDUCATION

Freshmen Physical Education – Credit: .5 Ell-Saline
Grade Level: 9, 10, 11, 12
Course Length: Semester
Prerequisite: none
This course focuses on the fundamental components and principles of fitness, including competency in motor skills, movement patterns, and strategies needed to perform a variety of physical activities. Students will work towards achieving a level of physical fitness for health and performance while demonstrating knowledge of fitness concepts, principles, and strategies.

Health– Credit: .5 Ell-Saline
Grade Level: 9, 10, 11, 12
Course Length: Semester
Prerequisite: none
This course includes a broad series of lessons and activities that offer a variety of modalities for ultimate student engagement and content retention. Each unit contains a series of lessons that include introduction of content, virtual demonstration of that content, and repeated opportunity to practice that content, along with an exam per unit.

Strength/Conditioning A– Credit: .5 Ell-Saline
Strength/Conditioning B– Credit:
Grade Level: 9, 10, 11, 12
Course Length: Year
Prerequisite: Freshman Physical Education
The Strength & Conditioning course will give students the tools and resources needed to be physically fit and healthy for a lifetime. The variety of exercises, techniques and equipment used will allow students to experience many different ways to exercise and "work out", which will likely lead to them finding exercises they enjoy and want to continue performing after completing the course.

SCIENCE

Some Agricultural Science courses also qualify for science credit. To explore these options and see how they can align with your academic plan, refer to the Agricultural Science category for detailed information.

Biology A– Credit: .5 Ell-Saline
Biology B– Credit: .5
Grade Level:10, 11, 12
Course Length: Full Year
Prerequisite: None
Biology is a life science course that fulfills one science credit toward graduation. Emphasis is placed on individual study and laboratory experiences. The course explores the theoretical foundations of biology; the nature of science, cell structure and function, genetics, evolution, the diversity of life, and ecology. Each student is expected to maintain a notebook containing his/her course materials.

Biotechnology A– Credit: .5 Ell-Saline
Biotechnology B– Credit: .5
Grade Level:11, 12
Course Length: Full Year
Prerequisite: Human Anatomy and Physiology
This course is designed to give students an introduction to biotechnology including a description of the science of biotechnology; examples of careers; and job responsibilities associated with biotechnology. The course includes an in-depth look at several biotechnology careers available in the local area. Students will gain introductory laboratory experience and develop the use of scientific processes including scientific writing and reading. This course is offered once every three years, and functions to prepare students for further studies in a technologically medical career.

Chemistry A– Credit: .5 Ell-Saline
Chemistry B– Credit: .5
Grade Level:10, 11, 12
Course Length: Full Year
Prerequisite: None
This course introduces the field of chemistry, dealing with substances making up our environment and the changes these substances undergo. Topics include atomic structure, atomic theory, standard measurements, mass-mole relationships, chemical bonding, chemical equations, gas laws, solution process, acids and bases, ionization and titration. Laboratory experience provides the student with laboratory equipment use and procedures. This course is designed in part to prepare students for admission to a university.

Human Anatomy & Physiology A– Credit: .5 Ell-Saline
Human Anatomy & Physiology B– Credit: .5
Grade Level:11, 12
Course Length: Full Year
Prerequisite: None
Human Anatomy & Physiology is a detailed introduction to the structures and functions of the human body. This course is an advanced biology course, and will provide students with a base knowledge adequate to prepare them to study either biology or a medical profession in college. Students interested in vocational work involving health care will also find this course useful. Topics are organized into units covering the major organ systems of the body. Emphasis will be placed on detailed knowledge of the structures of these systems (anatomy), and how those structures work together to allow optimal functioning (physiology). Supplementing this will be student led research and applicable lab experiences. Students will also be presented with opportunities to apply what they learn about the human body to make informed and intelligent personal decisions. This course is designed in part to prepare students for admission to a university

Physics A– Credit: .5 Ell-Saline
Physics B– Credit: .5
Grade Level:11, 12
Course Length: Full Year
Prerequisite: None
This physics course will prepare the student for college level science and mathematical problem solving and give them a strong background for further study in physics classes needed for physics related careers such as engineering, astronomy, medical or mathematics. Through course work, directed and inquiry based lab topics of study will include kinematics, Newton's Laws of motion, torque, rotational motion, angular momentum, gravitation and circular motion, work, energy, power, linear momentum, oscillations, mechanical waves and sound and electric circuits.

SOCIAL SCIENCE

American History A– Credit: .5 Ell-Saline
American History B– Credit: .5
Grade Level:11
Course Length: Full Year
Prerequisite: None
This course concentrates on the history of America in the twentieth century. After reviewing the origins of this country, the course will provide an in-depth study of the political, economic, social and cultural history of twentieth century America.

American Government A– Credit: .5 Ell-Saline
American Government B– Credit: .5
Grade Level:12
Course Length: Full Year
Prerequisite: None
This course concentrates on the development of the condition and structure of the federal government with emphasis on the Constitution of the United States. One of the purposes of the course is to promote and develop responsible citizenship. This course also course places a major emphasis on the basic economics concepts of a free enterprise economy. Another objective of the course is the development of an appreciation of attitudes necessary for the successful operation of the American capitalistic system. Topics of study include: units in the study of supply and demand, free enterprise, government finance, and money and banking.

Psychology – Credit: .5 Ell-Saline
Grade Level: 11**,**12
Course Length: Semester
Prerequisite: None
This course studies the fascinating subject of human behavior. Emphasis is placed on helping students discover new ways of looking at themselves and interpreting the behavior of others. Attention is also directed toward topics that have practical use in everyday life and that will be addressed in college general psychology courses including scientific research, the brain, learning, memory, intelligence, personality, grief and abnormal behavior. This course is designed in part to prepare students for admission to a university. This course is offered through Salina Area Technical College (SATC) at a cost to the student. Students are expected to register with SATC to take the course. The course is asynchronous. This is a Dual enrollment course.

Sociology – Credit: .5 Ell-Saline
Grade Level: 11**,**12
Course Length: Semester
Prerequisite: None
Sociology studies the perplexing causes and consequences of human relationships. The focus is on the role of the individual in groups and their impact on society. Relevant issues and topics such as deviant behavior, spousal abuse, the family, and war and violence are given attention in the course. The student is provided with class sessions to perform inquiry into possible solutions to human problems. This course is designed in part to prepare students for admission to a university. This course is offered through Salina Area Technical College (SATC) at a cost to the student. Students are expected to register with SATC to take the course. The course is asynchronous. This is a Dual enrollment course.

World History A– Credit: .5 Ell-Saline
World History B– Credit: .5
Grade Level:10
Course Length: Full Year
Prerequisite: None
This is a survey course which studies the patterns of human interaction from the Renaissance to modern times. It is designed to give students the intellectual tools necessary for living in an increasingly small world; to expand their understanding and appreciation of diverse cultures; and to enhance their knowledge of the accomplishments -- and mistakes -- of the past. In addition to identifying significant historical events and personalities, the course emphasizes contemporary world issues and their underlying causes. This will involve the study of religions, philosophies, and aesthetic heritages.

WORLD LANGUAGE

The study of language requires daily usage of a student's verbal skills. To guide students in enrollment, it is recommended that students have at least "C" grades in English before enrolling in a language. All students will be required to demonstrate proficiency in the prerequisite levels of a world language before enrolling for the second and third year courses.

Spanish 1 A– Credit: .5 Ell-Saline
Spanish 1B– Credit: .5
Grade Level: 9, 10, 11, 12
Course Length: Full Year
Prerequisite: None
Spanish 1 is an introductory course to the second major language of the United States. This course stresses pronunciation and the ability to speak in word groups by means of repetition, imitation, and manipulation of basic sentences. Emphasis is placed on developing an active functional vocabulary and on learning basic grammar. Geography, culture, and customs are also highlighted. Success in this course is dependent upon the attention level of the student and his/her participation in the daily oral and written class work. Daily vocabulary memorization is essential. The study of the Spanish language will improve the student's English vocabulary and grammar skills and help on the ACT test. A paperback Spanish/English dictionary is recommended. This course is completed on line with a live instructor and instruction.

Spanish 2 A– Credit: .5 Ell-Saline
Spanish 2 B– Credit: .5
Grade Level: 10, 11, 12
Course Length: Full Year
Prerequisite: Spanish 1
Spanish 2 is a continuation of Spanish 1 with more emphasis on communication. Work is more advanced in speaking, reading, writing, and listening. Geography, culture and customs of Spain and other Spanish speaking countries are studied. Selected Spanish writers and artists are introduced. A paperback Spanish/English dictionary is recommended.

Salina Area Technical College is a fully accredited institution of higher learning where students can work towards earning a Technical Certificate at the same time they are graduating from high school, enabling them to jump right into the workforce. Students can choose from a variety of programs at Salina Tech, most of which are tuition-free! Salina Tech also offers general education courses to help jumpstart the student's postsecondary education. There is something to meet everyone's career/postsecondary goals!

Concurrent Enrollment

Salina Tech has partnered with USD 307 to provide opportunities for concurrent enrollment. Concurrent enrollment means the student will receive both high school and college credit for the eligible course, which will be taken right on the student's high school campus! This enrollment is open to sophomores, juniors, seniors, and gifted freshmen. Some of the general education courses available for concurrent enrollment are Comp 1, Comp 2, and College Algebra. The transferability of the courses extends to all Kansas Regents institutions.

Technical education courses such as Financial Accounting and Residential Architecture are also available and are tuition-free! An SATC representative will be visiting these classrooms to discuss the credit and help students enroll. Students should visit https://www.salinatech.edu for a full course listing and to ensure they are scheduled in a course that is offered concurrently. The coursework, books, and instructor all stay the same for the student, making this is an easy and convenient way for a student to earn college credit, all without ever leaving the high school campus!

Dual Credit Enrollment

Juniors and seniors have the option of dual enrollment in most of Salina Tech's full-time programs. These classes are held on the Salina Tech campus. Most of our technical programs allows the student to graduate from high school with both a high school diploma and a Technical Certificate from SATC. Students enrolled in these programs will spend half the day at SATC and the other half at their high school. These courses are tuition-free, but institutional fees still apply. For a list of available programs, please see the program guides.

SATC Excellence Agreement

The SATC Excellence Agreement is designed for high school students enrolled in approved career and technical education courses at Salina Area Technical College. This agreement outlines the costs for high school students in their technical program while at SATC. High school students will be charged for only items they will take away when they have completed their SATC program. Some examples are uniform shirts, certification testing, graduation fees, and workbooks. All other items must be returned in the same condition as they were checked out. Examples would be textbooks and tools. Students will be charged only for these items if they are not returned or if they are broken or damage. Students will be charged replacement value on these items.

COE Hardship

Students who experience financial hardship may apply for the COE Hardship Appeal. Granted appeals will have their cost reduced by 50% each semester during the academic year. This award is intended to support students who would otherwise be unable to attend Salina Tech. Students with questions should contact their high school counselor or call SATC Student Services at 785-309-3100.

For scheduling flexibility, all ACR classes are offered every semester and both in the AM and in the PM. Therefore, high school students may start in ACR in the junior or senior year of HS. ACR also accepts springs starts. So, the semester listed below (1st, 2nd, 3rd, 4th) does not necessarily indicate Fall or Spring semester. For example, if a student starts at SATC in the spring semester, that would be the student's 1st semester. Also, HS students who start in the AM generally remain in the AM for the remainder of their time at SATC. Likewise, HS students who start in the PM generally remain in the PM for the remainder of their time at SATC.

Option 1							
Course Title		Sem.	Credits	Course Title		Sem.	Credits
ACR 110	Paint & Refinishing 1	1	3	ACR 120	Paint & Refinishing 3	3	3
ACR 115	Paint & Refinishing 2	1	3	ACR 125	Paint & Refinishing 4	3	4
ACR 130	Non-Structural A & D Repair 1	2	4	ACR 140	Non-Structural A & D Repair 3	4	4
ACR 135	Non-Structural A & D Repair 2	2	4	ACR 145	Non-Structural A & D Repair 4	4	5
ACR 150	Structural A & D Repair 1	2	2	ACR 160	Structural A & D Repair 3	4	3
ACR 155	Structural A & D Repair 2	2	2	ACR 165	Structural A & D Repair 4	4	3
					Total Technical Certificate		**40**

Course Title		Sem.	Credits	Course Title		Sem.	Credits
ACR 130	Non-Structural A & D Repair 1	1	4	ACR 120	Paint & Refinishing 3	3	3
ACR 135	Non-Structural A & D Repair 2	1	4	ACR 140	Non-Structural A & D Repair 3	3	4
ACR 150	Structural A & D Repair 1	1	2	ACR 125	Paint & Refinishing 4	4	4
ACR 155	Structural A & D Repair 2	1	2	ACR 145	Non-Structural A & D Repair 4	4	5
ACR 110	Paint & Refinishing 1	2	3	ACR 160	Structural A & D Repair 3	4	3
ACR 115	Paint & Refinishing 2	2	3	ACR 165	Structural A & D Repair 4	4	3
Option 2					**Total Technical Certificate**		**40**

The physical demands described here are representative of those that must be met by a student to successfully perform the essential functions of working in this field. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this program, the student is regularly required to stand, walk, and talk or hear. The student frequently is required to sit and use hands to handle or feel. The student is occasionally required to reach with hands and arms; climb or balance; and stoop, kneel, crouch, or crawl. The student must work in various weather conditions such as excessive heat or cold.

The student must frequently lift and/or move up to 10 pounds and occasionally lift and/or move up to 50 pounds. Specific vision abilities required by this field include close vision, distance vision, color vision, peripheral vision, depth perception, and ability to adjust focus.

First Year

Fall Semester – Year 1			Spring Semester – Year 1		
Course Title		Credits	Course Title		Credits
AUT 100	Shop Safety/Management	1	AUT 146	Brakes 1 Brakes	3
AUT 115	Engine Repair 1 Engine	2	AUT 150	2 ASE	2
AUT 120	Repair 2	3	AUT 260	Preparation	1
	Total Credits	**6**		**Total Credits**	**6**
				Total Technical Certificate Credits	**12**

Second Year

Fall Semester – Year 2			Spring Semester – Year 2		
Course Title		Credits	Course Title		Credits
AUT 221	Manual Drive Train 1	1	AUT 210	Automotive HVAC	4
AUT 241	Automatic Transmissions & Transaxles 1	3	AUT 222	Manual Drive Train 2	3
AUT 242	Automatic Transmissions and Transaxles 2	3			
	Total Credits	**7**		**Total Credits**	**7**
				Total Technical Certificate Credits	**14**

Additional coursework required after high school to graduate with an automotive technology certificate:

Year 3		
Course Title		Credits
AUT 109	Steering and Suspension	3
AUT 110	Steering and Suspension 2	2
AUT 131	Engine Performance 1 Electrical	3
AUT 135	1 Electrical 2 Engine	3
AUT 140	Performance 2 Engine	2
AUT 132	Performance 3 Automotive	4
AUT 133	Diesel Technologies	3
AUT 155	Hybrid/Electric Vehicles	1
AUT 160	Electrical 3 Electrical 4	1
AUT 235		3
AUT 240		2

The physical demands described here are representative of those that must be met by a student to successfully perform the essential functions of working in this field. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this program, the student is regularly required to stand, walk, and talk or hear. The student frequently is required to sit and use hands to handle or feel. The student is occasionally required to reach with hands and arms; climb or balance; and stoop, kneel, crouch, or crawl. The student must work in various weather conditions such as excessive heat or cold. The student must frequently lift and/or move up to 10 pounds and occasionally lift and/or move up to 50 pounds. Specific vision abilities required by this field include close vision, distance vision, color vision, peripheral vision, depth perception, and ability to adjust focus.

Business Administration Technology

Program Guide – High School

Option 1: Business Administrative Technology: Accounting Pathway

First Year

	Fall Semester			Spring Semester	
	Course Title	Credits		Course Title	Credits
BAT 192	Financial Accounting 1	3	BAT 153	Spreadsheet Management	3
BUS 100	Introduction to Business	3	BAT122	Desktop Publishing	3
CSA 105	Intro to Computer Apps and Concepts	3	BAT 196	Financial Accounting II	3
			BAT 124	Managerial Accounting	3
	Total Credits	**9**		**Total Credits**	**12**
				Total Technical Certificate Credits	**21**

Second Year

	Fall Semester			Spring Semester	
	Course Title	Credits		Course Title	Credits
BAT 160	Business Communications	3	BAT 114	Payroll Accounting	3
BAT 186	Business Law	3	BAT 134	Micro Computer Accounting	3
BUS 120	Personal Finance	3			
	Total Credits	**9**		**Total Credits**	**6**
				Total Technical Certificate Credits	**15**

Option 2: Business Administrative Technology: Management/Leadership Pathway

First Year

	Fall Semester			Spring Semester	
	Course Title	Credits		Course Title	Credits
BAT 140	Management	3	BAT 144	Human Resource Management	3
BUS 100	Introduction to Business	3	BAT 153	Spreadsheet Management	3
CSA 105	Intro to Computer Apps and Concepts	3	BAT 122	Desktop Publishing	3
	Total Credits	**9**		**Total Credits**	**9**
				Total Technical Certificate Credits	**18**

Second Year

	Fall Semester			Spring Semester	
	Course Title	Credits		Course Title	Credits
BAT 160	Business Communications	3	BAT 154	Small Business Management	3
BAT 184	Leadership	3	BAT 164	Principles of Supervision	3
BAT 186	Business Law	3	BAT 130	Principles of Marketing	3
	Total Credits	**9**		**Total Credits**	**9**
				Total Technical Certificate Credits	**18**

First Year

Fall Semester			Spring Semester		
Course Title		Credits	Course Title		Credits
CAD 112	Introduction to Mechanical Drafting	3	CAD 152	Residential Architecture with Revit	4
CAD 117	Intermediate Mechanical Drafting	3	CAD 157	Commercial Architecture with Revit	3
CAD 127	Basics of AutoCAD	3	CAD 167	Civil Drafting with AutoCAD Civil 3D	4
	Total Credits	**9**		**Total Credits**	**11**
				Total Technical Certificate Credits	**20**

Second Year

Fall Semester			Spring Semester		
Course Title		Credits	Course Title		Credits
CAD102	SolidWorks Part Modeling	3	CAD 172	Advanced Mechanical Drafting and Sheet Metal Design	4
CAD107	SolidWorks Assembly Modeling	3	CAD 182	Specific Industry Projects	3
MAT 101	Technical Math	3			
	Total Credits	**9**		**Total Credits**	**7**
				Total Technical Certificate Credits	**16**

The physical demands described here are representative of those that must be met by a student to successfully perform the essential functions of working in this field. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this program, students are regularly required to sit, walk and stand; talk or hear, both in person and by telephone; use hands repetitively to handle, feel or operate standard office equipment; reach with hands and arms. The student is occasionally required to stand; walk and stoop, kneel, crouch, or crawl. The student must frequently lift and/or move up to 10 pounds and occasionally lift and/or move up to 25 pounds. Specific vision abilities required by this field include close vision, distance vision, color vision, peripheral vision, depth perception and ability to adjust focus.

First Year

Fall Semester			Spring Semester		
Course Title		Credits	Course Title		Credits
ENV 102	OSHA 10	1	CON 125	Floors, Walls, Ceiling, & Framing	4
CON 101	Introductory Craft Skills	3	CON 132	Roof Framing	3
CON 105	Construction Math	1	CON 137	Windows, Doors, & Stairs	3
CON 111	Carpentry Basics	4	CON 165	Insulation, Roofing, Exterior Finish	3
Total Credits		**9**		**Total Credits**	**13**
				Total Technical Certificate Credits	**22**

Second Year

Fall Semester			Spring Semester		Credits
Course Title		Credits	Course Title		
CON 152	Construction Skills	5	CON 115	Intermediate Carpentry	3
CON 157	Concrete Applications	4	CON 175	Steel Framing & Drywall	2
Total Credits		**9**	**Total Credits**		**5**
			Total Technical Certificate Credits		**14**

The physical demands described here are representative of those that must be met by a student to successfully perform the essential functions of working in this field. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this program, the student is regularly required to stand, walk, and talk or hear. The student frequently is required to sit and use hands to handle or feel. The student is occasionally required to reach with hands and arms; climb or balance; and stoop, kneel, crouch, or crawl. The student must work in various weather conditions such as excessive heat or cold. The student must frequently lift and/or move up to 10 pounds and occasionally lift and/or move up to 50 pounds. Specific vision abilities required by this field include close vision, distance vision, color vision, peripheral vision, depth perception, and ability to adjust focus.

Dental Assistant Technical Certificate – Senior Year

Fall Semester				Spring Semester			
Course Title		Status	Credits	Course Title		Status	Credits
DEN 124	Dental Anatomy		2	DEN 208	Dental Practice Management **(Pre-req: DEN 124)**		3
DEN 123	Introduction to Anatomy and Physiology	2					
Semester Total		**4**			**Semester Total**		**3**
					Total Technical Education Credits		**7**

Dental Assistant Technical Certificate – Post Secondary

Fall Semester				Spring Semester			
Course Title		Status	Credits	Course Title		Status	Credits
DEN 150	Infection Control		2	DEN 248	Nitrous Oxide Administration **(Pre-req: CPR to include hands-on training)**		1
DEN 138	Dental Radiology I		3	DEN 220	Dental Materials II **(Pre-req: DEN 127)**		2
DEN 246	Dental Science **(Pre-req: DEN 123, DEN 134)**		3	DEN 230	Chairside Assisting II **(Pre-req: DEN 134)**		3
DEN 127	Dental Materials I		4				
DEN 134	Chairside Assisting I		4	DEN 243	Clinical Experience **(Pre-req: DEN 123, DEN 124, DEN 127, DEN 134, DEN 138, DEN 150, DEN 246. Also need hepatitis B vaccination, CPR and HIPPA training, 90% attendance, and a C average in all core courses).**		8
Semester Total			**16**	**Semester Total**			**15**
				Total Credits Toward Technical Certificate			**31**
				Total Technical Education Credits			**38**

Dental Assistant Associate of Applied Science – Junior Year

Fall Semester				Spring Semester			
Course Title		Status	Credits	Course Title		Status	Credits
CSA 105	Introduction to Computer Applications and Concepts		3	COM 105 or COM 102	Public Speaking or Interpersonal Communication		3
HEA 103	Medical Terminology		3	MAT 101	Technical Math		3
Semester Total			**6**	**Semester Total**			**6**
				Total Credits Toward AAS			**12**

Dental Assistant Associate of Applied Science – Senior Year

Fall Semester				Spring Semester			
Course Title		Status	Credits	Course Title		Status	Credits
ENG 101	English Comp I		3	DEN 208	Dental Practice Management		3
DEN 124	Dental Anatomy		2	BIO 150	Anatomy and Physiology*		5
Semester Total			**5**	**Semester Total**			**8**
				Total Credits Toward AAS			**13**

*BIO 105 Anatomy and Physiology can be taken in fall or spring. 2 credits count toward Dental Assistant Program Completion and 3 credits count as an elective toward AAS Degree

Dental Assistant Associate of Applied Science – Senior Year

Summer Semester

Course Title		Status	Credits
PSY 101	General Psychology		3
	Elective Choice		3
Semester Total			**6**
Total Credits Toward AAS			**6**

Dental Assistant Associate of Applied Science – Post Secondary

Fall Semester				Spring Semester			
Course Title		Status	Credits	Course Title		Status	Credits
DEN 150	Infection Control		2	DEN 248	Nitrous Oxide Administration **(Pre-req: CPR to include hands-on training)**		1
DEN 138	Dental Radiology I		3	DEN 220	Dental Materials II **(Pre-req: DEN 127)**		2
DEN 246	Dental Science **(Pre-req: DEN 123, DEN 134)**		3	DEN 230	Chairside Assisting II **(Pre-req: DEN 134)**		3
DEN 127	Dental Materials I		4				
DEN 134	Chairside Assisting I		4	DEN 243	Clinical Experience **(Pre-req: DEN 123, DEN 124, DEN 127, DEN 134, DEN 138, DEN 150, DEN 246. Also need hepatitis B vaccination, CPR and HIPPA training, 90% attendance, and a C average in all core courses).**		8
Semester Total			**16**	**Semester Total**			**15**
						Total Credits Toward AAS	**31**
						Total Credits Earned for Graduation	**62**

Diesel Technology
Program Guide – High School

First Year

First Semester			Second Semester		
Course Title		Credits	Course Title		Credits
DST 204	Hydraulics	5	DST 108	Wheel ends	3
DST 206	Suspension and Steering	3	DST 109	Brakes	3
MAT 101	Technical Math	3	HUM 101	Ethics in the Workplace	3
	Total Credits	**11**		**Total Credits**	**9**
				Total Technical Certificate Credits	**20**

Second Year

First			Second Semester		
Course		Credits	Course Title		Credits
ENV 102	Safety Orientation (OSHA 10)	1	DST 106	Drive Trains	3
DST 201	Powershifts	4	DST 107	Standard Transmissions	3
DST 202	Torque Convertors	1			
DST 203	Hydrostatic Drive	2			
	Total Credits	**8**		**Total Credits**	**6**
				Total Technical Certificate Credits	**14**

Additional coursework required after high school to graduate with an Associate of Applied Science degree, in Diesel Technology:

Course Name/Number	Credits
DST 101 Diesel Engines 1	5
DST 102 Electrical/Electronic Systems	5
DST 103 Emissions	5
ENG 101 Technical Writing	3
CSA 105 Introduction to Computer Applications	3
DST 207 Advanced Diesel Engines	5
DST 208 Fuel Lab	1
DST 209 Advanced Electrical/Electronic Systems	5
DST 211 HVAC	2
COM 105 Public Speaking	3

The physical demands described here are representative of those that must be met by a student to successfully perform the essential functions of working in this field. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

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Certificate A: Infant and Toddler Education

First Year

Fall Semester			Spring Semester		
Course Title		Credits	Course Title		Credits
ECE 100	Principles of Early Childhood Education	3	ECE 100	Principles of Early Childhood Education	3
ECE 104	Infant-Toddler Development and Care	3	ECE 140	Teaching Children with Special Needs	3
ECE 115	Child Nutrition, Health, and Safety	3	ALH 139	First Aid and CPR	2
	Total Credits	**9**		**Total Credits**	**8**
				Total Technical Certificate Credits	**17**

Certificate A: Pre-School Education

Second Year

First Semester			Second Semester		
Course Title		Credits	Course Title		Credits
ECE 108	Interaction Techniques with Young Children	3	ECE 128	Interaction Techniques with Pre-School Children	3
ECE 109	Interaction Techniques with Young Children	2	ECE 129	Interaction Techniques with Pre-School Children Pract.	2
ECE 120	Pre-School Language and Literacy	3	ECE 135	Building Relations with Families and Communities	3
			SOC 103	Marriage and Families	3
	Total Credits	**8**		**Total Credits**	**11**
				Total Technical Certificate Credits	**19**

Certificate B: Early Childhood Education

Technical Education Courses

Fall Semester Year 1			Spring Semester Year		
Course Title		Credits	Course Title		Credits
ECE 100	Principles of Early Childhood Education	3	ECE 100	Principles of Early Childhood Education	3
ECE 104	Infant-Toddler Development and Care	3	ECE 140	Teaching Children with Special Needs	3
ECE 115	Child Nutrition, Health, and Safety	3	ALH 139	First Aid and CPR	2
	Total Credits	**9**		**Total Credits**	**8**
Fall Semester Year 2			**Spring Semester Year 2**		
Course Title		Credits	Course Title		Credits
ECE 108	Interaction Techniques with Young Children	3	ECE 128	Interaction Techniques with Pre-School Children	3
ECE 109	Interaction Techniques with Young Children	2	ECE 129	Interaction Techniques with Pre-School Children Pract.	2
ECE 120	Pre-School Language and Literacy	3	ECE 135	Building Relations with Families and Communities	3
			SOC 103	Marriage and Families	3
	Total Credits	**8**		**Total Credits**	**11**
				Total Technical Certificate Credits	**36**

The physical demands described here are representative of those that must be met by a student to successfully perform the essential functions of working in this field. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this program, students are regularly required to sit, walk and stand; talk or hear, both in person and by telephone; use hands repetitively to handle, feel or operate standard office equipment; reach with hands and arms. The student is occasionally required to stand; walk and stoop, kneel, crouch, or crawl. The student must frequently lift and/or move up to 10 pounds and occasionally lift and/or move up to 25 pounds. Specific vision abilities required by this field include close vision, distance vision, color vision, peripheral vision, depth perception and ability to adjust focus.

Fall Semester			Spring Semester		
Course Title		Credits	Course Title		Credits
ALH 101	CNA	6	ALH 110	CMA *(CNA is a pre-req)*	5
HEA 103	Medical Terminology	3	ALH 101	CNA	6
			HEA 103	Medical Terminology	3
			ALH 134	Legal Concepts	3
	Semester Credits	**9**		**Semester Credits**	**11/12**

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First Year

Fall Semester			Spring Semester		
Course Title		Credits	Course Title		Credits
ENV102	Safety Orientation (OSHA 10)	1	HVA154	Gas Heating	4
HVA104	Electrical Fundamentals	4	HVA159	A/C, Heat Pumps, Electric Heat	4
HVA109	Controls & Motors	2	HVA164	RTU Heating & A/C	1
HVA114	Heating System Fundamentals	3			
MAT 101	Technical Math	3			
	Total Credits	**13**		**Total Credits**	**9**
				Total Technical Certificate Credits	**22**

Second Year

Fall Semester			Spring Semester		
Course Title		Credits	Course Title		Credits
HVA119	HVAC Fundamentals	4	HVA169	Commercial Refrigeration, Evaporators, Recovery, Condensers	2
HVA124	Compressor & Refrigeration Controls	2	HVA174	EPA 608	1
HVA129	Sheet Metal Layout & Fabrication	1	HVA179	Commercial Refrigeration Compressors, Metering Devices & Controls	2
HVA134	Refrigeration Fundamentals	1	HVA184	Workplace Skills	1
			HVA189	Commercial Refrigeration Troubleshooting, Motor Controls & Ice Machines	3
	Total Credits	**8**		**Total Credits**	**9**
				Total Technical Certificate Credits	**17**

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First Year

Fall Semester			Spring Semester		
Course Title		Credits	Course Title		Credits
ENV 102	Safety Orientation (OSHA 10)	1	MTT 130	Special Projects	3
MAT 101	Technical Math	3	MTT 232	CNC Mill Operations	3
MTT 111	Bench Work	1	MTT 233	CNC Lathe Operations	3
MTT 116	Print Reading	3			
MTT 122	Quality Control & Inspections	1			
MTT 230	CNC Operations	3			
MTT 210	Metallurgy	1			
	Total Credits	**13**		**Total Credits**	**9**
				Total Technical Certificate Credits	**22**

Second Year

Fall Semester			Spring Semester		
Course Title		Credits	Course Title		Credits
MTT 140	Machining I	3	MTT 215	Machining II	3
HUM 101	Ethics in the Workplace	3	MTT 242	Feature Cam Mills	3
			MTT 243	Feature Cam Lathes	3
	Total Credits	**6**		**Total Credits**	**9**
				Total Technical Certificate Credits	**15**

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First Year Courses

Fall Semester			Spring Semester		
Course Title		Credits	Course Title		Credits
FIR 118	Firefighting Strategy and Tactics	3	FIR 125	Building Construction	3
FIR 121	Fire Science Hydraulics and Water Supply	3	FIR 130	Intro to Fire and Emergency Services	3
Credits Total		**6**	**Credits Total**		**6**

Fall/Spring/Summer Semester		
Course Title		Credits
ALH 120	Emergency Medical Technician ***(not required, but strongly encouraged)*** (Pre-req: Age 17, current immunizations)	12

Second Year Courses

Fall Semester			Spring Semester		
Course Title		Credits	Course Title		Credits
FIR 135	Fire Origin and Cause	3	FIR 115	Firefighter I	3
FIR 140	Fire Inspection and Code Enforcement	3	FIR 117	Firefighter II	3
Credits Total		**6**	**Credits Total**		**6**
				Total Technical Certificate Credits	**36**

Students enrolled in USD 307 / Salina Area Technical College Public Safety are taking college-level courses designed to prepare them for employment in the field of Fire Science or Police Science. Salina Area Technical College is asking students and their parents/guardians to sign this statement acknowledging that they are aware of and consent to the sensitive and graphic nature of the content of the courses. Further, it is acknowledged and understood that students taking the Public Safety courses will be exposed to potentially disturbing and/or controversial subject matter and inherently dangerous equipment and activities, particularly in the case of the fire science courses. All content and curriculum outlined in the Outcomes/Competencies section of the syllabi, as well as any additional materials and activities assigned by the instructor, constitute a required course of study for completion of the courses. Contact Salina Area Technical College with any additional questions.

FIRE SCIENCE: Students must be 18 before the end of spring semester to be able to take the firefighter certification test.

First Year Courses

Fall Semester			Spring Semester		
Course		Credits	Course		Credits
PLS 100	Introduction to Criminal Justice	3	PLS 101	Criminal Investigations	3
PLS 105	Criminal Procedures	3	PLS 120	Criminal Justice Interview and Report Writing	3
PLS 110	Professional Responsibility in Criminal Justice	3	PLS 125	Introduction to Corrections	3
	PLS Required Elective (below)	3		PLS Required Elective (below)	
Credits Total		**12**	**Credits Total**		**12**

Second Year Courses

Fall Semester			Spring Semester		
Course		Credits	Course		Credits
PLS 107	Juvenile Delinquency and Justice	3	PLS 115	Law Enforcement Operations and Procedures	3
PLS 109	Criminal Law	3	PLS 130	Agency Administration	3
	PLS Required Elective (below)	3		PLS Required Elective (below)	3
	PLS Required Elective (below)	3			
Credits Total		**12**	**Credits Total**		**9**
			Total Technical Certificate Credits		**45**

PLS 100 Introduction to Criminal Justice will be offered every semester. It is a pre-requisite for all PLS courses.

PLS Required Electives (15 credits required for Technical Certificate and 6 credits for AAS)		
Course Title		Credits
PSS 101	Introduction to Emergency Communications	3
PLS 140	Crime Scene Investigation	3
PLS 150	Psychology of Crime	3
PLS 160	Prevention and Deterrence of Crime	3
PSY 101	General Psychology	3
Total Technical Certificate Credits		**15**

If you want to work in the law enforcement field, you will be required to enroll in either of the below courses.

Additional Courses		
Course Title		Credits
PLS 215	Kansas Law Enforcement Training Center (KLETC) required for AAS	12
PLS 200	Kansas Highway Patrol (KHP)	8
If an individual completes the KHP training, they will also get credit for the KLETC training, for a total of 20 credits.		

First Year

Fall Semester			Spring Semester		
Course Title		Credits	Course Title		Credits
ENV 102	Safety Orientation (OSHA-10)	1	WEL 106	Cutting Process	3
MAT 105	Technical Math	3	WEL 112	Shielded Metal Arc Welding II	3
WEL 105	Welding Theory	3	WEL 150	Welding Blueprint Reading	3
WEL 111	Shielded Metal Arc Welding I	3			
	Total Credits	**10**		**Total Credits**	**9**
				Total Technical Certificate Credits	**19**

Second Year

Fall Semester			Spring Semester		
Course Title		Credits	Course Title		Credits
WEL 115	Gas Metal Arc Welding I	3	WEL 116	Gas Tungsten Arc Welding	3
WEL 215	Gas Metal Arc Welding II	3	WEL 120	Fabrication & Production	3
WEL 223	Core Wire Welding	3	WEL 216	Gas Tungsten Arc Welding II	3
	Total Credits	**9**		**Total Credits**	**9**
				Total Technical Certificate Credits	**18**

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PRE-COLLEGE COURSES

Connecting high school students with their future.

KANSAS STATE UNIVERSITY | Salina Aerospace and Technology Campus

GENERAL EDUCATION PASSPORT PLANNING GUIDE

All offerings are subject to change each semester if K-State needs to make adjustments and should be checked for accuracy through our live course schedule website for that semester.

ENGLISH – Choose 2

ENGL 100 EXPOSITORY WRITING 1

- Fall – MWF 9:30-10:20 AM
- Fall – MWF 11:30-12:20 PM

ENGL 200 EXPOSITORY WRITING 2

- Spring – MWF 9:30-10:20 AM
- Spring – MWF 11:30-12:20 PM

COMMUNICATION – Choose 1

COMM 106 PUBLIC SPEAKING

- Fall - TU 9:15-10:30 AM
- Spring - TU 9:15-10:30 AM
- Fall, Spring, Summer - Online

MATH & STATISTICS – Choose 1

The new KBOR math gateway courses be in effect for incoming college freshmen fall 2026. I believe the HS graduating class of 2026 and beyond will utilize them.

MATH 100 COLLEGE ALGEBRA

- Fall - MWF 9:30-10:20 AM
- Fall – MWF 11:30-12:20 PM
- Spring – MWF 9:30-10:20 AM
- Spring – MWF 11:30-12:20 PM
- Fall, Spring, Summer – Online

MATH 220 CALCULUS 1 (some engineering majors)

- Fall – MTUF 9:30-10:20 AM
- Spring, Summer - Online

STAT 225 INTRO TO STATISTICS

- Fall – MWF 11:30-12:20 PM
- Spring – MWF 11:30-12:20 PM
- Summer - Online

NATURAL & PHYSICAL SCIENCE – Choose 1

Must include a lab.

BIOL 198 PRINCIPLES OF BIOLOGY

- Summer – Time Varies
- Fall – TU 3:30-5:20 PM
- Spring – TU 3:30-5:20 PM

CHM 110 GENERAL CHEMISTRY W/ CHM 111 LAB

- Fall, Spring – Lecture & Lab Online

GEOL 100 EARTH IN ACTION W/ GEOL 103 LAB

- Fall – TU 9:30-10:45 AM
- Fall – Lab Online

GEOL 125 NATURAL DISASTERS W/ GEOL 103 LAB

- Spring – TU 9:30-10:45 AM
- Spring – Lab Online

PHYS 113 GENERAL PHYSICS 1

- Fall – Lecture MWF 11:30-12:20 PM
- Fall – Lab U 10:45-12:35 PM

PHYS 114 GENERAL PHYSICS 2

- Spring – Lecture MWF 1:30-2:20 PM
- Spring – Lab F 2:30-4:20 PM

KANSAS STATE UNIVERSITY | Salina Aerospace and Technology Campus

ONLINE COURSE OFFERINGS

All offerings are subject to change and are subject to the availability of open seats at the time of enrollment. Students enrolled in full semester courses should expect to spend 8-10 hours a week on a course. Students enrolled in 8-week courses should expect to spend 16-20 hours a week on a course.

Visit our website for more information about enrollment and to get started:

https://salina.ksu.edu/precollege

AVM 101 – Introduction to Aircraft Materials & Tooling Standards (3 credit hours)

Skills and techniques essential to understanding aircraft material properties and fabrication techniques. Emphasizes knowledge and practical experiences involving: shop safety, organization and human factors associated with shop practices, basic aircraft structural materials and hardware familiarization, fluid lines and fittings, hand tool selection and use, and aviation-specific dimensional inspection tools and techniques, aircraft hardware identification and applications, cleaning and corrosion control, aircraft metal selection an applications, welding techniques and procedures and aircraft material inspection fundamentals.
SPRING – FULL SEMESTER

AVM 102 – Aviation Regulations, Compliance and Operations (2 credit hours)

A review of the role and organizational structure of the Federal Aviation Administration (FAA) as it relates to the certification and continued airworthiness of aircraft and its operation in general, business, and commercial aviation environments. Emphasis on the privileges and limitations of certificated personnel who maintain aircraft systems in the context of the FAA regulations. Includes practical applications of aircraft weight and balance, effective completion of maintenance record entries, accurate use of graphs and charts to determine critical performance values, and the servicing, staring, ground operations, and security of aircraft. Students demonstrate the ability to read, comprehend, and apply information contained in FAA and manufacturers' aircraft maintenance specifications, data sheets, manuals, publications, and related Federal Aviation Regulations, Airworthiness Directives, and Advisory material.
FALL – FULL SEMESTER

AVM 121 – Aircraft Drawings (2 credit hours)

Students learn how to read, understand, and interpret aircraft drawings commonly found in the aviation maintenance industry. Recognition and identification of drawing lines and symbols, and the meaning of these is covered.
FALL – FULL SEMESTER

AVM 141 – Aircraft Science (3 credit hours)

This is a study of basic physics as required by aircraft technicians and defined by FAR 147. Use and understand the principles of simple machines, sound, fluid, and heat dynamics, basic aerodynamics, aircraft structures, and theory of flight. ~~*Corequisite: MATH 100*~~.
SPRING – FULL SEMESTER

AVT 100 Introduction to Aviation (3 credit hours)
This course examines the history of aviation and a look at the future. Students discuss the attributes of an aviation professional, careers, career planning, and pilot certification. Students consider historical events and their relationship to current aviation aspects. The interdependency and synergy in the development of military aircraft, the space program, as well as the growth of commercial and general aviation is discussed. Students use the Internet for various research projects concerning the past, present, and future of aviation.
FALL & SPRING – FULL SEMESTER

AVT 250 Safety & Security of Airport Ground Operations (3 credit hours)

This course discusses general aviation airport ground operations, particularly from the mechanic, pilot, and ramp worker perspective. Focus will be on increasing awareness of airport operations. Attention will be given to improving airport safety by creating an enhanced awareness of rules, policies, procedures, and potential hazards that affect all individuals working in and around the airport ground operations environment. Some topics included are: aircraft marshalling procedures, airfield security issues, ground vehicle operations, and security and accident/incident response reporting.
FALL – FULL SEMESTER
SPRING – 2ND 8 WEEKS

BUS 110 Intro to Business (3 credit hours)

This course surveys the objectives, decisions, and activities within a business organization. Topics include a study of management responsibilities and controls, organizational structures, and marketing activities.
SPRING – FULL SEMESTER

BUS 251 Financial Accounting (3 credit hours)

Study of business topics such as alternative forms of business organizations; typical business practices; legal instruments such as notes, bonds, and stocks; and financial statements and analysis. The main objective is to develop the ability to provide information to stockholders, creditors, and others who are outside an organization.
FALL & SPRING – FULL SEMESTER

BUS 252 Managerial Accounting (3 credit hours)

This course outlines the use of internal accounting data by managers in directing the affairs of business and non-business organizations. ~~*Prerequisite: BUS 251*~~
FALL & SPRING – FULL SEMESTER

CHM 110 General Chemistry (3 credit hours)

Principles, laws, and theories of chemistry; important metallic and nonmetallic substances. An optional laboratory course, CHM 111, is available for an additional hour credit.
FALL & SPRING – FULL SEMESTER

CHM 111 General Chemistry Lab (1 credit hour)

A laboratory course to supplement the material of CHM 110. ~~*Co-requisite: CHM 110*~~
FALL & SPRING – FULL SEMESTER

CMST 108 PC Desktop Software (3 credit hours)
The use and application of popular software application packages. Topics include word processors, electronic spreadsheets, database management systems, and presentation software.
FALL & SPRING – FULL SEMESTER
SUMMER – 8 WEEKS

CMST 146 Digital Photography (3 credit hours)

Introduces basic photographic techniques and computer assisted image manipulation. Topics include: basic camera functions, basic digital image processing, visualization and design skills and digital manipulation techniques needed in today's market place. Students have opportunities to create portfolio pieces.
FALL & SPRING – FULL SEMESTER

COMM 106 Public Speaking I (3 credit hours)

Principles and practice of message preparation, audience analysis, presentational skills, and speech criticism permitting greater practice in oral presentation.
FALL & SPRING – FULL SEMESTER
SUMMER – 8 WEEKS

COT 150 Humanities Through the Arts (3 credit hours)

A general introduction to the humanities, focusing on what they are and their basic importance. Painting, sculpture, architecture, literature, drama, music, dance, film, and photography will be explored. Emphasis will be on participation, involvement, guest speakers, tours, and appreciation.
FALL & SPRING – FULL SEMESTER
SUMMER – 8 WEEKS

CYBR 103 Computing Principles (3 credit hours)

Fundamental concepts of computer science and computational thinking. Topics include the use of abstraction, problem analysis, data representation, algorithms and programming. Students learn to use creative processes to develop computational artifacts. Student activities are designed to appeal to a broad audience, including those underrepresented in computing.
FALL & SPRING – FULL SEMESTER

CYBR 137 Principles of Interactive Digital Storytelling (3 credit hours)

This course explores the frontier of narrative innovation and uncovers the unique qualities and capabilities of immersive technologies such as virtual, augmented, and mixed reality in crafting captivating stories. Students will explore theoretical and practical dimensions of designing immersive narratives, learning how to leverage sensory engagement and spatial storytelling techniques to create compelling virtual environments. Students will have a well-rounded understanding of the principles underlying interactive and immersive storytelling and will be equipped with the skills to create profound and engaging narratives within these revolutionary digital landscapes.
FALL – FULL SEMESTER

CYBR 163 - Fundamentals of Design Thinking (3 credit hours)

Students learn how to use the design thinking process to solve problems creatively, collaboratively and empathetically. Additionally, the course equips students with the knowledge of the processes and techniques used to solve problems and innovate in the workplace.
SPRING – 2ND 8 WEEKS

CYBR 180 Introduction to Database Systems (3 credit hours)
An introduction to properties and design principles of relational databases. Topics include database terms, E-R Modeling, relational table design and normalization, the relational algebra, Structured Query Language, and the database life cycle. Laboratory work includes the design and implementation of a database.
FALL – FULL SEMESTER

CYBR 210 – Interactive Media Development (3 credit hours)

In this course, students will learn to create visually rich interactive experiences. It is a course in programming graphics and media, but it is also a course on the relationship between ideas and code. Students will explore topics in math and physics by building programs that simulate and visualize processes in the natural world. Assignments will include major programming projects, such as building a virtual world inhabited by digital characters that display observable behaviors.
FALL – FULL SEMESTER

CYBR 247 Programming I (3 credit hours)

The syntax and semantics of a modern programming language. Topics include expressions, control statements, objects, classes, methods, event handling, arrays, inheritance, and polymorphism. Students are expected to apply the computational thinking and creative processes learned in CMST 103 to the development of computer programs. *Prerequisite: CYBR 103*
SPRING – FULL SEMESTER

CYBR 250 Hardware and Network Fundamentals (3 credit hours)

An introduction to computer systems with an emphasis on the internal workings of computer and network hardware. Hardware topics include data representation in binary, digital logic and the Von-Neumann architecture. Network topics include local-area and wide-area networks, topology, protocols and transmission media. Student activities include proper hardware configurations for various applications.
SPRING – FULL SEMESTER

ECON 110 Principles of Macroeconomics (3 credit hours)

Basic facts, principles, and problems of economics; determination of the level of output, employment, and the price level; the monetary and banking system; problems and policies of economic instability, inflation, and growth; principles of economic development; other economics systems.
FALL – FULL SEMESTER

ECON 120 Principles of Microeconomics (3 credit hours)

Basic facts, principles, and problems of economics including study of the determination of prices; the determination of wages, rent, interest, and profit; theory of the firm; monopoly and government regulation; international economic relations.
FALL & SPRING – FULL SEMESTER

MATH 100 College Algebra (3 credit hours)
Fundamental concepts of algebra; algebraic equations and inequalities; functions and graphs; zeros of polynomial functions; exponential and logarithmic functions; systems of equations and inequalities. *Prerequisite: two years of high school algebra and a Mathematics ACT score of 23 or higher or K-State's Algebra Math Placement Exam score of 21 or higher.*
FALL & SPRING – FULL SEMESTER
SUMMER – 8 WEEKS

MATH 150 Plane Trigonometry (3 credit hours)

Trigonometric and inverse trigonometric functions; trigonometric identities and equations; applications involving right triangles and applications illustrating the laws of sines and cosines. *Prerequisite: C or better in MATH 100; or two years of high school algebra and a Mathematics ACT score of 25 or higher or K-State's Algebra Math Placement Exam score of 40 or higher or K-State's Calculus Math Placement Exam score of 9 or higher.*
FALL & SPRING – FULL SEMESTER
SUMMER – 8 WEEKS

MATH 205 General Calculus and Linear Algebra (3 credit hours)

Introduction to calculus and linear algebra concepts that are particularly useful to the study of economics and business administration with special emphasis on working problems. *Prerequisite: C or better in MATH 100; or two years of high school algebra and a Mathematics ACT score of 26 or higher or K-State's Algebra Math Placement Exam score of 40 or higher.*
FALL & SPRING – FULL SEMESTER
SUMMER – 8 WEEKS

MATH 220 Analytic Geometry and Calculus I (4 credit hours)

Analytic geometry, differential and integral calculus of algebraic and trigonometric functions. *Prerequisite: B or better in MATH 100 and C or better in MATH 150; or three years of college preparatory math including trigonometry and a Mathematics ACT score of 28 or higher or K-State's Calculus Math Placement Exam score of 21 or higher.*
SPRING – FULL SEMESTER
SUMMER – 8 WEEKS

MLAS 100 - Survey of Machine Learning & Autonomous Systems (3 credit hours)

Rapid progress has been made in the development of autonomous systems. Terrestrial robotics, interplanetary systems, planetary robotics, uncrewed aerial systems, remote sensing platforms, and autonomous automobiles have all made great advances. These technologies have been enhanced by advances in artificial intelligence (AI). A non-programming perspective, this course will survey the current state-of-the-art perspective on artificial intelligence technologies used in autonomous systems. We start by presenting both ML-based and AI-based architectures that form the basis of perception, path planning, cognitive arbitration, and motion control.
FALL – FULL SEMESTER

PHYS 113 General Physics I (4 credit hours)
A basic development of the principles of mechanics, heat, fluids, oscillations, waves and sound. Emphasis is on conceptual development and numerical problem solving. *Prerequisite: MATH 150 or high school trigonometry*
FALL – 1ST 8 WEEKS
SUMMER – 8 WEEKS

PHYS 114 General Physics II (4 credit hours)

The continued treatment of the fundamentals of electricity and magnetism, light and optics, atomic and nuclear physics. These concepts are used to understand D.C. and A.C. circuits, motors, and generators. Emphasis is placed on conceptual development and problem solving. ~~*Pre-requisite: PHYS 113*~~
SUMMER – 8 WEEKS

PPIL 210 Aviation Safety (3 credit hours)

This course provides an introduction to the field of aviation safety with an emphasis on promoting a safety culture. Various safety programs and their relevance in the field of aviation are discussed. Students will examine numerous accident reports and discuss safety issues facing the aviation industry today.
SPRING – FULL SEMESTER
SUMMER – 8 WEEKS

SOCIO 211 Introduction to Sociology (3 credit hours)

Development, structure, and functioning of human groups; social and cultural patterns; and the principal social processes.
FALL – 1ST 8 WEEKS
SPRING – FULL SEMESTER

STAT 225 Introduction to Statistics (3 credit hours)

A project-oriented first course in probability and statistics with emphasis on computer analysis of data. Examples selected primarily from social sciences, natural sciences, education and popular culture. Descriptive statistics, probability, sampling, tests of hypothesis and confidence intervals for means and proportions, design and analysis of simple comparative studies, chi-square test for association, correlation and linear regression.
SUMMER – 8 WEEKS

UAS 114 Remote Pilot Certification for UAS (2 credit hours)

This course helps prepare students to become an FAA-Certified UAS Pilot. This course covers all knowledge topics important for a commercial UAS pilot. Once complete, the student takes the FAA's Remote Pilot in Command knowledge test.
FALL & SPRING – FULL SEMESTER

UAS 270 Introduction to Unmanned Aircraft Systems (3 credit hours)

Introduction to the history of UAS and survey of current UAS platforms, terminology, challenges to airspace integration and operational theory.
FALL & SPRING – FULL SEMESTER

UAS 272 UAS Safety Fundamentals (3 credit hours)
Introduction to aviation safety, with an emphasis on best practices for safe operation of unmanned aircraft systems. Topics include safety/risk assessments, human factors, crew resource management, aeronautical decision-making, risk management, and safety assurance.
FALL & SPRING – FULL SEMESTER

UAS 274 – Introduction to Processing Remotely Sensed Data (3 credit hours)

Students are introduced to basic theory, history, and practical applications of remote sensing technology, with an emphasis on high spatial resolution multispectral aerial imagery collected using UAS. Other topics include geographic information systems, aerial image interpretation, sensor resolution, orthomosaicing, georegistration, vegetation indices, and image classification.
SUMMER – 8 WEEK

UAS 275 – Small UAS Maintenance 1 (3 credit hours)

This course provides students with the knowledge and skill necessary to repair and maintain both fixed- and rotary- wing aircraft during field operations and to ensure continued airworthiness throughout the service life of the aircraft. Instruction emphasizes safe practices, provide an introduction to basic shop tools and machinery used in maintaining sUAS, and develop fundamental skills in platform fabrication and the troubleshooting/repair of the circuits, subsystems and components typically found on sUAS aircraft.
SPRING – FULL SEMESTER

UAS 280 – Multi-Rotor Construction Lab (2 credit hours)

This course focuses on the construction of a multi-rotor UAS. This includes gaining an understanding of individual components within the system and integrating the components into a fully functional system. Students will also test and tune the UAS once assembled.
FALL – FULL SEMESTER

Thank You

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