2017-18
Krum High School
Class of 2018
Academic Planning Guide

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KHS Contact Information

Administration

Michelle Pieniazek
Principal
michelle.pieniazek@krumisd.net

Bernard Lightfoot
Assistant Principal
bernard.lightfoot@krumisd.net

Guidance and Counseling

Lindsey Oh
Students, A-K
lindsey.oh@krumisd.net

Angela Borchardt
Students, L-Z
angela.borchardt@krumisd.net

Krum High School
(940) 482-2601
700-A Bobcat Boulevard
Krum, Texas 76249

General Information

The following information is the key to helping students successfully plan their years in high school. This guide will help students understand their specific graduation plan requirements and choose courses that will help them achieve their future goals. Each year, course selection can be an exciting time for students. However, it can also be very frustrating when a course is not available due to scheduling conflicts, class size limitations, and or teacher availability. Classes are subject to minimum class sizes and may not be scheduled due to lack of interest. It is important that students consider ***alternate*** course choices just in case his or her first choice is not available. Please note that all courses will not be offered every semester of every year. *Please remember that upperclassmen will be given priority in courses with limited enrollment.

Schedule Change Guidelines
Only schedules that meet the following criteria will be *considered* for changes:

- A change is needed to balance a class size.
- Seniors not enrolled in a course REQUIRED for graduation.
- Students scheduled in a course for which they already have credit (Ex: Summer School Credit)
- Student is enrolled in a course for which the student does not have the prerequisite.
- Students with incomplete schedules.
- Student has failed a course and needs to repeat the course.
- Student is cut from athletic program.

A Last Word of Caution
When you receive your schedule, **carefully review the classes in which you have been placed**. Compare the classes with your plan for graduation, and ensure that you are on the path that you have chosen. If you find errors or have questions regarding your schedule, call or sign up to see your counselor immediately. Ultimately, you are the one responsible for your progress toward graduation.

Compliance Statement
Krum I.S.D. does not discriminate on the basis of race, religion, color, national origin, sex, or handicap in providing education services, activities, and programs, including vocational programs in accordance with Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Educational Amendments of 1972; Section 504 of the Rehabilitation Acts of 1973, as amended; and Title II of the American with Disabilities Act.

Types of Courses

Regular Program Courses
Regular program courses are offered in language arts, mathematics, social studies, science, and the elective areas. These courses are designed to prepare students for most colleges. Regular courses are weighted on a 4.0 scale ***(GPA scale = Level 1)***.

Pre-Advanced Placement (Pre-AP) Courses
Pre-Advanced Placement (Pre-AP) courses at Krum High School are offered in the core areas: language arts, mathematics, social studies, and science. These courses are designed to challenge students at a higher level, and prepare them to take Dual Credit and Advanced Placement (AP) courses.

Transfer students to Krum ISD, may continue in previously enrolled Pre-AP courses if they maintain a grade of 80 or above. All high school students enrolled in a Pre AP course will receive grades weighted on a 5.0 scale ***(GPA scale = Level 2).***

Dual Credit
Dual credit Courses allow students the opportunity to earn high school and university/college credit. Krum ISD works with North Central Texas College (NCTC) to provide students with a variety of course offerings. In order to enroll in dual credit courses, student must meet the requirements set by KISD and NCTC. Please refer to the dual credit section of this guide to learn more about dual credit courses. Dual credit courses are weighted on a scale of 5.5 ***(GPA scale = Level 3)***. Dual credit coursework at NCTC may or may not transfer to the student's chosen college or university. It is the student's responsibility to check with their chosen institution. The following website allows students to check credit transferability www.tccns.org.

OnRamps Dual Enrollment
Dual Enrollment courses allow students to earn high school and university credit. Krum ISD partners with The University of Texas at Austin to provide students the opportunity to experience college courses while concurrently enrolled in the high school course facilitated by a high school teacher who is trained and certified by OnRamps to teach the course on their local campus. During the first half of the course, OnRamps students complete a series of required assignments that are designated by an Instructor of Record at the university to determine eligibility to be dually enrolled in the university course. Students who successfully complete the high school version of the course receive credit from their local high school. In addition, students who successfully complete the spring college course receive three core credits from the university guaranteed to transfer to any public college or university in Texas. OnRamps dual enrollment courses are weighted on a scale of 6.0 ***(GPA scale = Level 4)***

Advanced Placement (AP) Courses
Advanced Placement (AP) Courses are offered in English, mathematics, science, social studies and other selected areas. With AP, students are able to experience the rigors of college-level studies while still having the support of the high school environment. With qualifying AP exam scores, students may earn credit from a large majority of colleges and universities. It is the student's responsibility to contact specific universities for their individual policies and score requirements for credit. The following website allows students to check credit transferability
https://apstudent.collegeboard.org/creditandplacement/search-credit-policies

Transfer students to Krum ISD, may continue in previously enrolled AP courses if they maintain a grade of 80 or above. All high school students enrolled in an AP course will receive grades weighted on a 6.0 scale ***(GPA scale = Level 4).***

NOTE: Students enrolled in an AP course may be required to take the Advanced Placement exam in May of the school year in which the student is enrolled. AP Collegeboard total estimated cost is $90 per exam.

Please refer to the Credits and Grading section of this guide for further information regarding GPA calculation and weight of courses.

Guidelines for Entry into Pre-Advanced Placement (Pre AP) and/or Advanced Placement (AP) classes	
Option 1: Student must earn at least a 75 in the previous same subject at the Pre AP or AP level or at least an 85 in the previous same subject in a regular class.	
Option 2: Student must receive Level III-Masters on STAAR exams *(see chart below)*	
Level III- Masters STAAR Reading, English 1 or English II	*to be eligible for Pre AP English and/or social studies*
Level III- Masters STAAR Math or Algebra 1	*to be eligible for Pre AP math and/ or science*
ADDITIONAL REQUIREMENTS:	
All students requesting Pre AP and/or AP courses must have parent permission	
Summer assignments may be required in Pre AP and AP courses. Failure to complete the assignment may result in a zero. **see individual course descriptions*	

Exit Guidelines for Pre-AP/AP Courses

- A student may request to exit the Pre-AP/AP course during the first three weeks of each semester.
- A student that exits out of a Pre-AP/AP course will retain this grade in the new course. If a student exits with a grade below 70 in the original course, this will impact their UIL eligibility.
- Students who take an AP class for which there is not an academic equivalent will be required to remain in the course until the end of the semester.
- Exiting a Pre-AP/AP course prior to the end of a semester will result in loss of weighted credit for the course.

Credits and Grading

Grade Point System

Numerical Grade	**Level 1** Typical Courses	**Level 2** Pre-AP Courses	**Level 3** Dual Credit Courses	**Level 4** AP Courses
100	4.0	5.0	5.5	6.0
99	3.9	4.9	5.4	5.9
98	3.8	4.8	5.3	5.8
97	3.7	4.7	5.2	5.7
96	3.6	4.6	5.1	5.6
95	3.5	4.5	5.0	5.5
94	3.4	4.4	4.9	5.4
93	3.3	4.3	4.8	5.3
92	3.2	4.2	4.7	5.2
91	3.1	4.1	4.6	5.1
90	3.0	4.0	4.5	5.0
89	2.9	3.9	4.4	4.9
88	2.8	3.8	4.3	4.8
87	2.7	3.7	4.2	4.7
86	2.6	3.6	4.1	4.6
85	2.5	3.5	4.0	4.5
84	2.4	3.4	3.9	4.4
83	2.3	3.3	3.8	4.3
82	2.2	3.2	3.7	4.2
81	2.1	3.1	3.6	4.1
80	2.0	3.0	3.5	4.0
79	1.9	2.9	3.4	3.9
78	1.8	2.8	3.3	3.8
77	1.7	2.7	3.2	3.7
76	1.6	2.6	3.1	3.6
75	1.5	2.5	3.0	3.5
74	1.4	2.4	2.9	3.4
73	1.3	2.3	2.8	3.3
72	1.2	2.2	2.7	3.2
71	1.1	2.1	2.6	3.1
70	1.0	2.0	2.5	3.0
69 and below	No Grade Points Awarded	No Grade Points Awarded	No Grade Points Awarded	No Grade Points Awarded

Exclusions from GPA Calculation *(refer to EIC local)*

The following courses shall be excluded from GPA calculation:

- Summer school (excluding dual credit courses taken during the summer);
- Credit by examination;
- Credit recovery;
- Local credit courses;
- Foreign exchange courses; and
- Physical education/athletic courses.

(refer to EIC local policy)

Award of Credit

Mastery of at least 70 percent of the objectives on formative and summative assessments shall be required. Grade level placement for students shall be earned by course credits.

- If a student earns a grade of a 70 or above in a one-semester course, full credit will be awarded.
- If a student earns a 70 or above both semesters of a full- year course, full credit will be awarded.
- If a student earns a failing grade during the fall or spring semester in a full year course, and the final average is greater than or equal to 70, full credit will be awarded.
- Credit will be awarded for a failed semester when it is repeated and the student earns a grade of 70 or above.

Exams for Acceleration

These tests are used to award credit for courses not previously attempted. All students shall be eligible to take exams for acceleration. Students must score at least 80% to receive credit. *(refer to EHDC legal policy)*

Correspondence Courses

All students are eligible to take correspondence courses and earn credit toward graduation. Students may earn a maximum of two of the total units required by the state through correspondence courses. Prior to enrollment in correspondence courses, students will be required to submit written request to the principal or designee for approval to enroll in the course. Students may be enrolled in only two correspondence courses at a time. Credit toward state graduation requirements may be granted for correspondence courses only under the following conditions:

- The institution offering the course is The University of Texas at Austin, Texas Tech University or another public institution of higher education approved by the Texas Commissioner of Education.
- The correspondence course includes the state-required essential knowledge and skills for such a course.

High School Classification

All high school students are classified as members of a particular class as of the first day of each school year. This classification shall remain in effect for the entire school year. This policy does not apply to UIL eligibility.

Students are classified according to the number of credits they have earned.

CLASSIFICATION	CREDIT REQUIREMENTS
Sophomore	6 Credits
Junior	12 Credits
Senior	18 Credits

Graduation Requirements

Krum ISD
Distinguished Level of Achievement (DLA)
– Eligible for top 10% Automatic Admission

English Language Arts – 4 Credits
- English I
- English II
- English III
- Advanced English

Mathematics – 4 Credits
- Algebra I
- Geometry
- Algebra II
- Advanced Math

Social Studies – 4 Credits
- World Geography
- World History
- US History
- Government (.5)
- Economics (.5)

Science – 4 Credits
- Biology
- Lab Science
- Advanced Science
- Advanced Science

LOTE – 2 Credits
- Year 1
- Year 2

Fine Arts – 1 Credit

Physical Education – 1 Credit

Speech - .5 Credit

Electives – 6.5 Credits

Endorsements

In addition to the requirements of the Krum ISD DLA plan, students within KISD must successfully complete at least one endorsement.

ARTS AND HUMANITIES
-five credits in social studies; OR
-four levels of the same foreign language; OR
-four credits from one or two categories in fine arts

BUSINESS AND INDUSTRY
Coherent sequence of courses for four or more credits that includes:
-At least two CTE courses in the same cluster; AND
-At least one advanced CTE course; AND
-Final course of the sequence must be selected from the clusters listed: *Agriculture; Arts, AV Technology; Business Management; Finance; Hospitality/Tourism; Information Technology; Manufacturing; Transportation/Distribution*

MULTIDISCIPLINARY STUDIES
-Four advanced courses among endorsement areas that are not in a coherent sequence; OR
-Four credits in each of the foundation subject areas to include English IV and chemistry and/or physics; OR
-Four credits in AP or dual credit

PUBLIC SERVICE
Coherent sequence of courses for four or more credits that includes:
-At least two CTE course in the same cluster; AND
-At least one advanced CTE course; AND
-Final course of the sequence must be selected from the clusters listed: *Education & Training; Government; Health Sciences; Human Services; Law, Public Services, Corrections & Security*

SCIENCE, TECHNOLOGY, ENGINEERING & MATH (STEM)
-must complete algebra II, chemistry and physics; AND
- Coherent sequence of courses for four or more credits that includes:
---At least two CTE course in the same cluster; AND
---At least one advanced CTE course ;OR
-two additional math credits for which Algebra II is a prerequisite; OR
-two additional science credits (does not include IPC); OR
-three additional credits from no more than two of the following disciplines: mathematics, science, engineering

Performance Acknowledgement
(Optional)

Outstanding Performance(s) in:
- Dual Credit: *12 hours > 3.0*
- Advanced Technical Credit *(ATC)* : *12 hours > 3.0*
- Earn a nationally or internationally recognized industry certification.
- Earn an Associate's degree
- Advanced Placement Exams: *Minimum Score > 3*

Test Scores:
- PSAT - *(National Merit Recognitions)*
- SAT – *CR and Math 1250*
- ACT – *Composite (w/o writing) 28*

Bilingualism and Biliteracy:
Non-English Language Learners:
*Must satisfy both of the following:
- Maintain a 3.0 (4pt scale) in all required ELA courses
- Satisfy one of the following:
  - Complete 3 credits in the same foreign language with a minimum of a 3.0.
  - Score a 3 or higher on an AP exam in a language other than English.
  - Score Intermediate High or it's equivalent on a national assessment of language proficiency in a language other than English.

English Language Learners Only:
*must satisfy requirements listed above and the following:
- Participated in and met the Exit criteria for bilingual or English as a second language (ESL) program.
- Scored at the Advanced High Level on the Texas English Language Proficiency Assessment (TELPAS).

Endorsements

Endorsements

Students are able to earn one or more endorsements as part of their graduation requirements. Endorsements consist of a related series of courses that are grouped together by interest or skill set. They provide students with in-depth knowledge of a subject area. Students must select an endorsement in the ninth grade.

Students may choose from five endorsement areas:

- Arts and Humanities
- Business and Industry
- Multidisciplinary Studies
- Public Service
- Science, Technology, Engineering and Mathematics (STEM)

ARTS & HUMANITIES OVERVIEW

INTRODUCTION

The arts and humanities offer students an opportunity to study ancient and modern literature, history, language and culture. These courses allow students an opportunity to explore and understand how other cultures live. Students interested in the performing arts of music and theatre, as well as the visual arts, may find this endorsement suitable for them.

POSSIBLE CAREERS

Fine Arts/Performing Arts
Actor; Painter; Graphic Designer; Fashion Photographer; Web Designer; Art Gallery Curator; Sculptor; Film Director; Set Designer; Comic Book Artist; Film Critic; Advertising Designer; Animator; Choreographer; Dancer; Musician; Record Producer; Music Therapist; Radio Personality; Stage Manager; Director of Photography; Photojournalist; Fashion Designer; Novel Author; Ghost Writer

Foreign Language/Cultural Studies
Translator; Immigration and Customs Criminal Investigator; Interpreter; International Journalist; Public Relations Specialist; United Nations Worker; Foreign Diplomat; International Lawyer; Central Intelligence Agency Officer; Homeland Security Officer; Military Intelligence Officer

Social Studies/Political Science/History
Legislator; Political Advisor; State or Federal Worker; Election Officer; Municipal Administrator; Legislative Aide; Attorney; Activist, Advocate/Organizer; Archivist; Executive Campaign Operative; City Planner; Systems Analyst; Teacher; University Administrator; University Professor; Urban Policy Planner; Pollster; Public Affairs; Research Analyst; Public Opinion Analyst; Publisher

HOW TO OBTAIN THIS ENDORSEMENT

Within the requirements of the Krum ISD DLA plan, KISD students must successfully complete at least one endorsement. An arts and humanities endorsement may be achieved at KISD in the following ways:

Arts and Humanities:
-five credits in social studies; OR
-four levels of the same foreign language (LOTE); OR
-four credits from one or two categories in fine arts

BUSINESS & INDUSTRY OVERVIEW

INTRODUCTION

The Business and Industry Endorsement incorporates a large number of career paths and student interests. KISD offers a multitude of course options within the area of business and industry.

POSSIBLE CAREERS

Agriculture
Agriculture Banker; Agronomist; Agriculture Research Services Scientist; Commodity Trader; Extension Specialist; Farmer; Horticulture Specialist; Irrigation Specialist; Plant Pathologist; Production Supervisor; Ranger; Turf Manager; USDA Grader/Inspector; Farm Supply Manager

Architecture and Construction
Architectural and Civil Engineer; Building Services Technician; HVAC/HVACR Technician; Commercial Carpenter; Underwater Welder

Audio/Visual Technology, Communications
Graphic Designer; Videographer; Photographer; Animation Artist; Animation Technical Director; Television/Film Production Manager

Management and Finance
Debt Counselor; Economist; Entrepreneur; Meeting and Convention Planner; Marketing Manager; Personal Finance Advisor;
Training and Development Specialist

Transportation, Distribution, and Logistics
Air Traffic Controller; Airline Pilot; Fleet Manager; Flight Attendant; Health and Safety Manager; Dispatcher

HOW TO OBTAIN THIS ENDORSEMENT

Within the requirements of the Krum ISD DLA plan, KISD students must successfully complete at least one endorsement. A business and industry endorsement may be achieved at KISD in the following ways:

Business and Industry:
Coherent sequence of courses for four or more credits that includes:
-At least two course in the same cluster; AND
-At least one advanced CTE course; AND
-Final course of the sequence must be selected from the clusters listed: *Agriculture; Arts, AV Technology; Business Management; Finance; Hospitality/Tourism; Information Technology; Manufacturing; Transportation/Distribution*

MULTIDISCIPLINARY STUDIES OVERVIEW

INTRODUCTION

The Multidisciplinary Endorsement allows students to select courses from each of the endorsement areas.

POSSIBLE CAREERS

All career pathways identified in all cluster and endorsement areas would fall into the multidisciplinary endorsement area.

HOW TO OBTAIN THIS ENDORSEMENT

Within the requirements of the Krum ISD DLA plan, KISD students must successfully complete at least one endorsement. A multidisciplinary studies endorsement may be achieved at KISD in the following ways:

Multidisciplinary Studies:
-Four advanced courses among endorsement areas that are not in a coherent sequence; OR
-Four credits in each of the foundation subject areas to include English IV and chemistry and/or physics; OR
-four credits in AP or dual credit

PUBLIC SERVICE OVERVIEW

INTRODUCTION

Students pursuing an endorsement in Public Services will enroll in courses directly related to health science, education, law enforcement, culinary arts, hospitality and the armed forces.

POSSIBLE CAREERS

Education and Training
Child Care Worker; Clinical, Developmental or Social Psychologist; Coach; Counselor; Volunteer Coordinator; Teacher; Summer Camp Coordinator; Sign Language Interpreter; Social Worker; Superintendent; Principal; Communities in Schools Coordinator

Health and Science
Dental Assistant; Dentist; Health Unit Coordinator; Hospital Administrator; Medical Lab Technician; Medical or Public Health Researcher; Nurse; Nurse's Aide; Nutritionist or Dietician; Physical Therapist; Physician; Physician's Assistant; Scientist; Surgeon; Transcriptionist

Military
Air Force Judge Advocate Officer; Pilot; Security Forces Specialist; Pararescuer; Chaplain; Army Geospacial Engineer; Medic; Public Affairs Officer

Law, Public Safety, Corrections and Security
Attorney; Certified Security Officer; Correctional Officer; Court Reporter; Emergency Dispatcher; Fire Fighter; Immigration and Customs Inspector;
Loss Prevention Specialist; Paralegal; Park Ranger; Police Officer; Paramedic

HOW TO OBTAIN THIS ENDORSEMENT

Within the requirements of the Krum ISD DLA plan, KISD students must successfully complete at least one endorsement. A public service endorsement may be achieved at KISD in the following ways:

Public Service:
Coherent sequence of courses for four or more credits that includes:
-At least two CTE course in the same cluster; AND
-At least one advanced CTE course; AND
-Final course of the sequence must be selected from the clusters listed: *Education & Training; Government; Health Sciences; Human Services; Law, Public Services, Corrections & Security*

SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS OVERVIEW

INTRODUCTION

Students pursuing a STEM endorsement would complete courses directly related to: Environmental Science, Technology, Engineering, Advanced Mathematics, and Computer Science.

POSSIBLE CAREERS

Science
Climate Change Analyst; Marine Biologist; Emergency Management Specialist; Environmental Compliance Inspector; Environmental Scientist; Geographer; Geoscientist; Hydrologist; Industrial Health & Safety Engineer; Meteorologist; Park Ranger; Science Manager; Soil and Water Conservationist; Soil Scientist: Medical Scientist; Biophysicist; Biochemist; Chemist; Physicist; Atmospheric Scientist; Materials Scientist; Astronomer; Biological Scientist

Technology
Software Developer; Computer Systems Analyst; Web Developer; Information Security Analyst; Database Administrator; Civil Engineer; Mechanical Engineer; IT Manager; Computer Programer; Computer Systems Administrator

Engineering
Civil Engineer; Mechanical Engineer; Biomedical Engineer; Architect; Electrical Engineer; Environmental Engineer; Industrial Engineer; Landscape Architect; Petroleum Engineer

Mathematics
Actuary; Budget Analyst; Economist; Financial Analyst; Mathematician; Statistician; Operations Research Analyst; Finance Officer; Accountant; Certified Public Accountant; Cryptographer; Mathematics Professor; Person Finance Advisor

HOW TO OBTAIN THIS ENDORSEMENT

Within the requirements of the Krum ISD DLA plan, KISD students must successfully complete at least one endorsement. A STEM endorsement may be achieved at KISD in the following ways:

Science, Technology, Engineering & Math (STEM)

Must complete algebra II, chemistry and physics; AND
-Coherent sequence of courses for four or more credits that includes:
---At least two CTE course in the same cluster; AND
---At least one advanced CTE course ;OR
-two additional math credits for which Algebra II is a prerequisite; OR
-two additional science credits (does not include IPC); OR
-three additional credits from no more than two of the following disciplines: mathematics, science, engineering

Career & Technical Education Sequences

***Students do NOT NEED to take EVERY course listed under each sequence, nor are these prescribed sequences for students - these are recommended sequences ONLY.**
There are MANY options in each endorsement and in each pathway.

2017-2018 KRUM ISD CAREER & TECHNICAL EDUCATION (CTE) COHERENT SEQUENCES & ENDORSEMENTS				
How Do I Use This Guide?				
The guide features the CTE coherent sequences of courses by career cluster and endorsement. Each course will begin with an introductory course and end with an advanced course for the senior year.				
Business & Industry Endorsement				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Agriculture, Food & Natural Resources				
Animal Systems				
Principles of Agriculture, Food & Natural Resources (1.0)	Livestock Production (1.0)	Food Technology and Safety (1.0) **OR** Small Animal Management (0.5) **AND** Professional Communication (0.5) **OR** Equine Science (0.5) **AND** Professional Communications (0.5)	Food Technology and Safety (1.0) **OR** Small Animal Management (0.5) **AND** Professional Communication (0.5) **OR** Equine Science (0.5) **AND** Professional Communications (0.5)	Veterinary Medical Applications (1.0) **OR** Advanced Animal Science (1.0)
Plant Systems				
Principles of Agriculture, Food & Natural Resources (1.0)	Horticulture Science (1.0)	Advanced Plant and Soil Science (1.0) **OR** Floral Design (1.0)	Advanced Plant and Soil Science (1.0) **OR** Floral Design (1.0)	Greenhouse Operations and Production (1.0)
Ag Mechanic & Metal Systems				
Principles of Agriculture, Food & Natural Resources (1.0)	Ag Mechanics & Metal Technologies (1.0)	Introduction in Welding(1.0)	Welding I (2.0)	Welding II (2.0)

Audio/Visual			
A/V Production			
9th Grade	10th Grade	11th Grade	12th Grade
Principles of Arts, Audio/Visual, & Communications (1.0) **OR** Principles Information Technology (1.0)	Principles of Arts, Audio/Visual, & Communications (1.0) **OR** Principles Information Technology (1.0)	A/V Production I (1.0) **OR** Digital Media (1.0) **OR** Graphic Design and Illustration (1.0)	A/V Production I (1.0) **OR** Digital Media (1.0) **OR** Graphic Design and Illustration (1.0)

Business Management & Administration			
Business Management			
9th Grade	10th Grade	11th Grade	12th Grade
Principles of Business, Marketing, & Finance (1.0)	Business Information Management I (1.0) **OR** Money Matters (1.0)	Business Law (1.0) **OR** Global Business (0.5) **AND** Professional Communications (0.5) **OR** Human Resources Management (0.5) **AND** Professional Communications (0.5)	Business Law (1.0) **OR** Global Business (0.5) **AND** Professional Communications (0.5) **OR** Human Resources Management (0.5) **AND** Professional Communications (0.5) **OR** Financial Mathematics (1.0 **OR** Business English (1.0)
Finance			
Principles of Business, Marketing, & Finance (1.0)	Business Information Management I (1.0) **OR** Money Matters (1.0)	Business Information Management I (1.0) **OR** Money Matters (1.0) **OR** Accounting I (1.0)	Accounting I (1.0) **OR** Accounting II (1.0) **OR** Financial Mathematics (1.0)
Personal Finance			
Principles of Business, Marketing, & Finance (1.0)	Business Information Management I (1.0) **OR** Money Matters (1.0)	Business Information Management I (1.0) **OR** Money Matters (1.0) **OR** Global Business (0.5) **AND** Professional Communications (0.5) **OR** Human Resources Management (0.5) **AND** Professional Communications (0.5)	Business Law (1.0) **OR** Global Business (0.5) **AND** Professional Communications (0.5) **OR** Human Resources Management (0.5) **AND** Professional Communications (0.5) **OR** Financial Mathematics (1.0 **OR** Business English (1.0)
Information Technology			
IT			
Principles of Information Technology (1.0)	Digital Media (1.0) **OR** Web Technology (1.0) **OR** Business Information Management I (1.0)	Digital Media (1.0) **OR** Web Technology (1.0) **OR** Business Information Management I (1.0)	Digital Media (1.0) **OR** Web Technology (1.0) **OR** Business Information Management I (1.0)

Public Service Endorsement			
Health and Science			
Health Science			
9th Grade	10th Grade	11th Grade	12th Grade
Principles of Health Science (1.0)	Medical Terminology (1.0)	Anatomy & Physiology (1.0) **OR** Counseling & Mental Health **OR** Health Science (ATC) (1.0)	Anatomy & Physiology (1.0) **OR** Counseling & Mental Health **OR** Practicum in Health Science (ATC) (2.0)
Education and Training			
Education			
Principles in Human Services (0.5)	Interpersonal Studies (0.5) **AND** Professional Communications (0.5) **OR** Child Development (1.0)	Instruction Practices (ATC) (2.0)	Practicum in Education and Training (ATC) (2.0)
Human Services			
Principles in Human Services (0.5)	Interpersonal Studies (0.5) **AND** Professional Communications (0.5) **OR** Child Development (1.0) **OR** Nutrition (0.5) **AND** Professional Communications (0.5)	Interpersonal Studies (0.5) **AND** Professional Communications (0.5) **OR** Child Development (1.0) **OR** Nutrition (0.5) **AND** Professional Communications (0.5) **OR** Counseling and Mental Health (1.0)	Child Development (1.0) **OR** Counseling and Mental Health (1.0)

State Assessment

Texas launched a new testing program called the State of Texas Assessments of Academic Readiness or STAAR® in 2012. It replaces the Texas Assessment of Knowledge and Skills (TAKS). STAAR is given to students in grades 3-8 and to students taking high school level courses in **Algebra I, English I and II, U. S. History and Biology**. Passing is defined as achieving *approaches performance standards*. Student must meet passing standards for graduation. Any student not receiving *approaches performance standards* will be provided remediation.

More information regarding STAAR assessments may be found online at http://www.tea.state.tx.us/

Parents & students can view their student's state assessment history by logging onto the Texas Assessment student data portal at www.TexasAssessment.com.

- Select the Families tab and "Go to Student Portal" link.
- Enter your student's Unique Access Code (located at the bottom of your child's Confidential Student Report, CSR) and date of birth.
- Additional student and parent resources are also available at http://www.tea.state.tx.us/student.assessment/parents/

Dual Credit

Dual credit allows students the opportunity to simultaneously earn high school and university/college credit. The student is expected to abide by the rules and regulations of both institutions. The course will be counted as part of the student's daily schedule. The grade earned will be designated on the high school transcript. While this course will earn university credit and will be recorded on two formal transcripts, the transferability of this course to another university rests solely with the accepting institution. Students should consult the admissions officer of the appropriate institution for information regarding the transfer of credits.

The student is responsible for the payment of all tuition, books, and fees, as well as for providing his/her own transportation, if the course is offered only at the university. Enrollment at the university affords the student the same rights and privileges granted to all students as stated by university policy. However, many dual credit courses are offered on each high school campus. Students interested in this program should consult their counselor for additional information. Students must check with their counselor **BEFORE** requesting a college course to be sure it is the correct course number.

Benefits

- Convenient - courses taught at the high school, online, or on an NCTC campus.
- Affordable pathway to college degree.
- Provides excellent opportunity to transition between high school and a 4-year university.
- Core coursework transfers to most public universities in Texas.

Dual Credit Procedures

- **Check With Your High School Counselor**
  - Have a minimum high school GPA of 2.0 or higher.
  - Students must exhibit the maturity and social behavior necessary to participate in a college-level course.
  - Students with prior disciplinary or attendance problems, as defined by The Texas Education Code, section 25.92 Minimum Attendance for Class Credit, are not eligible to enroll in dual-credit courses.
  - Have a desire to get a head start in college
  - Have passing test scores appropriate to course subject/meet TSI requirements (Texas Success Initiative*).

- **Submit An Application: www.applytexas.org**

  After submission, students will receive an automated email indicating application was received. A second email will be sent from NCTC letting students know that other documents are needed (transcript, test scores, etc.). If you do not receive these emails, please contact the NCTC Dual Credit Coordinator, Debbie Endres (daendres**@**nctc.edu or 940.668.3337)

  - **Apply for Dual Credit Scholarship.**

  Deadline: April for fall and October for spring.

- **Complete DC101 Orientation - *MUST BE COMPLETED PRIOR TO TSI TESTING!***

  Information regarding college success will be presented to help prepare dual credit students. Required for all new dual credit students.

- **Take TSI Assessment *(if needed)* and Submit Official Test Scores**

  Test scores must verify TSI college readiness. Visit www.nctc.edu for TSI test score standards and exemptions. Students may use the following test scores to meet TSI requirements:
  - ***ACT*** – Composite score of 23; at least 19 on both English and Math portions. Note that scores must have been earned within the past 5 years.
  - ***SAT*** – Combined score of 1070; at least 500 on verbal and 500 on math for tests taken after April 1995. Note that scores must have been earned within the past 5 years.
- **Submit High School Transcript**

  Transcripts must indicate a 2.0 average.

- **Submit Proof of Meningitis Immunization**

  Required for online courses and courses offered face-to-face on NCTC campuses. Immunization is waived if you are attending dual credit courses only at your high school.

- **Complete Dual Credit Agreement Form**

  This form indicates the name of the college course, course number, section, and term of the course you plan to take (ENGL 1301.870. 131s). Complete all the information. Check with your counselor on the Krum High School campus for information on courses that have been approved for Krum and for specific procedures for using the Dual Credit Agreement Form to register for courses.

- **Make Payment**

  Payment is due at the time of registration. Students can be dropped from course(s) for failing to make payment. Reinstatement is not guaranteed and there is a $75 fee for reinstatement. Tuition may be waived if you qualify for the Federal Lunch Program at your school. Verification is required on the dual credit agreement.

- **Purchase Textbooks**

  Order books online: Go to www.nctc.edu and click **Bookstore** at bottom of home page OR online sites (i.e. Amazon).
  Walk in Bookstores: Gainesville 940-668-4246, Corinth 940-498-6279, Flower Mound 972-899-8406

Lagrone Advanced Technology Complex (ATC)

Krum ISD is excited to partner with Denton ISD to offer KHS students the opportunity to take courses at the Lagrone Advanced Technology Complex.

Career Cluster Areas:

Architecture, Arts, Audiovisual Technology, Education & Training, Health Science, Hospitality & Tourism, Human Services, Information Technology, Law, Public Safety, Security, Manufacturing, Science Technology, Engineering, Transportation

The ATC's main purpose is to provide high school juniors and seniors with professional training and/or pre-college courses. Students also have the opportunity to earn university or community college credit and/or the necessary preparation to attain certifications or licenses in certain technical fields.

Students planning to take courses at the ATC must meet both Krum ISD and ATC Requirements (See Below).

Krum ISD Requirements for Application

1. Student must be classified as 11th or 12th grade
2. Student must receive positive recommendations from at least instructional staff. The recommendations must illustrate satisfactory:
    a. Discipline Records and
    b. Academic Records
3. Attendance at mandatory ATC Information Meeting
4. Student must be on track to graduate on time.
5. Courses selected must fit within the student's schedule including all required courses to meet graduation requirements.
6. Krum ISD requires all ATC students to use district transportation to and from the complex.

ATC Requirements for Admission

1. ATC Application
2. Course Selection Form
3. 2 Teacher Recommendations
4. Health Form
5. Home Campus Counselor Recommendation
6. Program specific Requirements (Note Prerequisites)
7. Payment of Course Fees
8. Attendance at mandatory meetings for specific programs
9. Space available in desired course

Word of Caution

Courses at the ATC are offered on a block schedule. Students at Krum ISD enrolled at the ATC must enroll in two courses in order to have a complete schedule. In addition, courses occupy 3 class periods of a student's daily schedule. Please be mindful that students may have limitations placed on their schedule when attending courses at the ATC. Krum ISD works to ensure students are provided every opportunity to participate and be enrolled in courses of preference. Required courses for graduation take precedent.

Many of the courses offered at the ATC have time requirements for certification purposes. If a student chooses to participate in this program, the student may be excluded from some pep rallies or other home campus activities during the instructional time at the ATC.

Students may pick up an application for Lagrone Advanced Technology Complex from their counselor.

Application deadlines, procedures, and information will be communicated each spring.

Course Descriptions

ENGLISH LANGUAGE ARTS

English I (E100), 1 credit
Grade: 9
GPA: Level 1
Summer Assignment Required

Look forward to a year filled with World War II historic literature, romance in Romeo and Juliet, and the great feeling of knowing how to conquer that darn STAAR test. Painless poetry and intriguing short stories will instill knowledge and skills while the students aren't looking. On a more technical level, this course emphasizes learning proper grammar and mechanics for written text. Written composition skills will be demonstrated through descriptive, narrative, and expository paragraph writing. Students will read, analyze, and use basic literary terminology in study of poems, short stories, novels, and other literature for a better understanding and appreciation of plot, setting, characterization, theme and point of view.

English I Pre-AP (E101), 1 credit
Grade: 9
GPA: Level 2
Prerequisite: see *Types of Courses* section for requirements
Summer Assignment Required

Demonstrate your creativity in the summer assignment and then launch into a world of literature with historic origins. Diary of Anne Frank, the play, Animal Farm, Romeo and Juliet, and other literature will take students on a ride through hope, fear, and romance. English I Pre-AP enriches and elaborates the English I curriculum, focusing on higher level thinking skills. It includes development of research skills and demanding reading and writing activities. Demanding content and methods will prepare students to succeed in the AP setting. The teaching approach will be inductive, emphasizing students' responsibility for learning.

English II (E200), 1 credit
Grade: 10
GPA: Level 1
Prerequisite: English I
Summer Assignment Required

With English I under their belts, students will be ready to explore WWII novel, Night, written by a holocaust survivor and Of Mice and Men, the teacher's favorite. Letters and essays to persuade the most stubborn reader will be written and mastered by these sophomores. Students will also enjoy a romp in poetry as they read and write it. Students will improve their grammatical and narrative abilities through extensive creative writing processes. This will provide a learning opportunity for self-discovery of one's views on the "world around us" and support previous language arts learning. The second semester concludes with reading novels and submitting personal works for publication.

English II Pre-AP (E201), 1 credit
Grade: 10
GPA: Level 2
Prerequisite: English I, see *Types of Courses* section for requirements
Summer Assignment Required

In addition to the regular English II curriculum, Pre-AP English II adds higher level thinking activities to prepare students for College Board tests and college level AP classes in later high school years. Students will study Shakespeare's Taming of the Shrew and delve into the civil rights movement in To Kill a Mockingbird.

English III (E300), 1 credit
Grade: 11
GPA: Level 1
Prerequisite: English II
Summer Assignment Required

American literature will draw the juniors in to the Salem witch trials in The Crucible, futuristic plagues in Fahrenheit 451, and the tongue-in-cheek humor of Mark Twain. The juniors also will enjoy entering the dark reaches of Edgar Allen Poe and SAT vocabulary. With the STAAR test in their rearview mirrors, students will begin preparing for tests that will open the doors to their futures. The class will also cover a variety of American speeches, essays, poetry, and prose. Students will also develop confidence in their essay writing in preparation for college and job applications!

English III AP (E500), 1 credit
AP Language and Composition
Grade: 11-12
GPA: Level 4
Prerequisite: English II, see *Types of Courses* section for requirements
Summer Assignment Required

In addition to the English III curriculum, juniors who like a challenge will explore the shame and betrayal in The Scarlet Letter, and Shakespeare's Hamlet which dramatizes the effects produced "when evil is chosen as a way to fulfill the ambition for power." Students will become more confident in their essay writing and command of vocabulary for success in the ACT or SAT. AP Language and Composition is a full-year introductory college level course. Students will develop the ability to analyze the rhetoric of prose passages and demonstrate skills in composition directly by writing essays in various rhetorical modes. A syllabus will be provided.

English IV (E400), 1 credit
Grade: 12
GPA: Level 1
Prerequisite: English III
Summer Assignment Required

This course focuses on British literature, SAT/ACT vocabulary, the writing process, and integrating technology to create an individualized project based on an assigned theme. The teacher will supply a syllabus for each nine weeks.

English IV AP (E501), 1 credit
AP Literature and Composition
Grade: 12
GPA: Level 4
Prerequisite: AP Language and Composition, see *Types of Courses* section for requirements
Summer Assignment Required

AP Literature and Composition is a full-year introductory college level English course. Students will read selected poems and passages analytically and write critical or analytical essays on poems, prose passages, and complete novels and plays. A syllabus will be provided.

English Dual (ENGL 1301) (E603), .5 credit
Dual Credit with North Central Texas College
Grade: 11-12
GPA: Level 3
Prerequisite: Must meet TSI requirements, English I and English II

College level course. Principles and techniques of expository and persuasive writing; critical thinking and, textual analysis; essays and research methods. Students who pass the course will receive 3 college hours of credit, and ½ credit of English III or English IV (varies on student need).

English Dual (ENGL 1302) (E604), .5 credit
Dual Credit with North Central Texas College
Grade: 11-12
GPA: Level 3
Prerequisite: Must meet TSI requirements, Dual Credit English 1301

College level course. Continuation of ENGL 1301. Advanced techniques of expository and persuasive writing; critical thinking and textual analysis; essays and research methods. Students who pass the course will receive 3 college hours of credit, and ½ credit of English III or English IV (varies on student need.

Business English (E401), 1 credit
Grade: 12
GPA: Level 1

Students recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students are expected to plan, draft, and complete written compositions on a regular basis. Students edit their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English and produce final, error-free drafts for business reproduction. *This course is also a CTE course.*

MATHEMATICS

Algebra I (M100), 1 credit
Grade: 8-9
GPA Level: 1

Students learn to compute positive and negative numbers, solve equations, percents, proportions, graphing and writing equations. TI-83 graphing calculators will be available for students to use in class, but individual purchase of one is strongly recommended if student plans to continue with higher math or engineering in college.

Algebra I Pre-AP (M103), 1 credit
Grade: 9
GPA Level: 2
Prerequisite: see *Types of Courses* section for requirements

Advanced study of learning to compute positive and negative numbers, solve equations, percents, proportions, graphing and writing equations. TI-83 graphing calculators will be available for students to use in class, but individual purchase of one is strongly recommended if student plans to continue with higher math or engineering in college.

Geometry (M200), 1 credit
Grade: 9-10
GPA Level: 1
Prerequisite: Algebra 1

Designed to strengthen students' reasoning ability through techniques learned in developing deductive and inductive proof. Study of various geometric figures including angles, quadrilaterals, triangles and circles. Students learn perimeter, circumference, area and volume. TI-83 graphing calculators will be available for students to use in class, but individual purchase of one is strongly recommended if student plans to continue with higher math or engineering in college.

Geometry Pre-AP (M203), 1 credit
Grade: 9-10
GPA Level: 2
Prerequisite: Algebra I, see *Types of Courses* section for requirements

Students learn to reason deductively through proofs. Advanced study of various geometric figures including angles, quadrilaterals, triangles, and circles. Students learn perimeter, circumference, area, and volume. TI-83 graphing calculators will be available for students to use in class, but individual purchase of one is strongly recommended if student plans to continue with higher math or engineering in college.

Algebra II (M300), 1 credit
Grade: 10-11
GPA Level: 1
Prerequisite: Algebra I

This course extends the concepts learned in Algebra I to the complex number system. Emphasis is on the study of functions, graphing, factoring, and equation solving within the field of complex numbers. Use of calculator as aids and tools. TI-83 graphing calculators will be available for students to use in class, but individual purchase of one is strongly recommended if student plans to continue with higher math or engineering in college.

Algebra II Pre-AP (M301), 1 credit
Grade: 9-11
GPA Level: 2
Prerequisite: Algebra I, see *Types of Courses* section for requirements

Advanced study of concepts learned in Algebra I to the complex number system. Emphasis is on the study of functions, graphing, factoring and equation solving within the field of complex numbers. Use of calculator as aids and tools. TI-83 graphing calculators will be available for students to use in class, but individual purchase of one is strongly recommended if student plans to continue with higher math or engineering in

college.

Financial Mathematics (M405), 1 credit
Grade: 11-12
GPA Level: 1
Prerequisite: Algebra 1

The mathematical process standards describe ways in which students are expected to engage in the content. The process standards weave the other knowledge and skills together so that students may be successful problem solvers and use mathematics efficiently and effectively in daily life. *This course is also a CTE course.*

Pre-Calculus (M400), 1 credit
Grade: 11-12
GPA Level: 1
Prerequisite: Algebra II

Study on skills in trigonometry, elementary analysis, and analytical geometry necessary for success in physics and calculus. Emphasis is on trigonometric properties and the study of functions and relations. Advanced algebraic techniques. TI-83 graphing calculators will be available for students to use in class, but individual purchase of one is strongly recommended if student plans to continue with higher math or engineering in college.

Pre-Calculus Pre AP (M402), 1 credit
Grade: 11-12
GPA Level: 2
Prerequisite: Algebra II, see *Types of Courses* section for requirements

Students will study topics such as Trigonometry, Functions and Relations, Advanced algebraic techniques, and Analytical Geometry which are necessary for to be successful in Physics and Calculus. TI-83 graphing calculators will be available for students to use in class, but individual purchase of one is strongly recommended if student plans to continue with higher math or engineering in college.

Pre-Calculus (M604), 1 credit
OnRamps Dual Enrollment
Grade: 11-12
GPA Level: 4

Using a creative and connected approach, students deepen and extend their knowledge of functions, graphs, and equations from their high school algebra and geometry courses so that they can successfully work with the concepts in a rigorous university-level calculus course. This course is designed to push students well beyond "drill and kill" exercises, emphasizing conceptual understanding of mathematical definitions and developing logical arguments with their peers. (Students enrolling in this course need to have access to a laptop computer that can be used at school.)

Mathematics for Business Analysis Dual(MATH 1324)(M605).5 credit
Grade:11-12
GPA Level:3

The application of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming; and probability, including expected value.

Business Calculus Dual(Math 1325) (M607), .5 credit
Dual Credit with North Central Texas College
Grade Level: 11-12
GPA Level: 3

This course is the basic study of limits and continuity, differentiation, optimization, and graphing, and integration of elementary functions, with emphasis on applications in business, economics, and social sciences. This course is not a substitute for MATH 2413, Calculus I.

AP Calculus (M500), 1 credit
Grade Level: 12
GPA Level: 4
Prerequisite: see *Types of Courses* section for requirements
Summer Assignment Required

This is a college level course where students will use the concepts from all previous mathematics courses and learn new topics, such as Limits, Differentiation, and Integration as well as their uses as described in the college board course description for AP Calculus AB. Students will be expected to take the AP exam in May. TI-83 graphing calculators will be available for students to use in class, but individual purchase of one is strongly recommended.

Mathematical Models with Applications (M202), 1 credit
Grade: 10-12
GPA Level: 1
Prerequisite: Algebra I and Geometry. Approval required.

Students will use mathematical methods to model and solve real life applied problems involving money, data, chance, patterns, music design, and science. Students will use mathematical models from Algebra, Geometry, probability, statistics, and connections among these to solve problems from a wide variety of mathematical situations. Graphing calculators will be assigned to students.

SOCIAL STUDIES

World Geography (SS10), 1 credit
Grade: 9
GPA Level: 1
Prerequisite: None

In World Geography, students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present with emphasis on contemporary issues. Students use problem-solving and decision-making skills to ask and answer geographic questions.

World Geography Pre-AP (SS11), 1 credit
Grade: 9
GPA Level: 2
Prerequisite: see *Types of Courses* section for requirements

In World Geography Pre-AP, students study the same objectives as in World Geography but at a more in-depth level. The course will be enriched with the study of world literature, primary sources, case studies, and research projects. Excellent

study habits are imperative.

World History (SS20), 1 credit
Grade: 10
GPA Level: 1
Prerequisite: None

World History is a survey of the history of humankind. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. Students evaluate the causes and effects of political and economic imperialism.

World History Pre-AP (SS21), 1 credit
Grade: 10
GPA Level: 2
Prerequisite: see *Types of Courses* section for requirements
Summer Assignment Required

This course includes a survey of World History and the development of various cultures and civilizations from prehistory through the 21st century. Emphasis is placed on higher-level and critical-thinking skills using supplemental readings and document-based questions. Extensive outside preparation for class is required on a daily basis. Students should be prepared for a more rigorous curriculum than in on-level World History.

United States History (SS30), 1 credit
Grade: 11
GPA Level: 1
Prerequisite: None

In U.S. History the course content is based on the founding documents of the U.S. government, which provide framework for its heritage. Students use critical thinking skills and a variety of primary and secondary sources to explain and apply different methods that historians use to understand and interpret the past, including multiple points of view and historical context.

United States History Pre-AP (SS31), 1 credit
Grade: 11
GPA Level: 2
Prerequisite: see *Types of Courses* section for requirements
Summer Assignment Required

This course requires the same objectives as U.S. History, but at a more in-depth level. The course will be enriched with the study of world literature, primary sources, case studies, and research projects.

United States History Dual (HIST 1301) (SS60), .5 credit
Dual Credit with North Central Texas College
Grade: 11
GPA Level: 3
Prerequisite: must meet TSI requirements

This course is a study of the history of the United States with a focus on the development of American characteristics and institutions, including the forging of a new society from European, African and American cultures. Emphasis is on colonial and early national periods through the Civil War Reconstruction. Students who pass the course will receive 3 college hours of credit, and ½ credit of US History.

United States History Dual (HIST 1302) (SS64), .5 credit
Dual Credit with North Central Texas College
Grade: 11
GPA Level: 3
Prerequisite: must meet TSI requirements

This course is a study of the history of the United States from 1877 to the present. The focus is on the development of American society in the 20tht century, response to the urban-industrial environment, the United States as a world power, and post-World War II society.

Government (SS40), .5 credit
Grade: 12
GPA Level: 1

This course will cover the foundation of the United States political system beginning with the influences of Old England in relation to law and democracy. Government will be traced through the colonial era into present U. S. government. The types of government will be defined including authoritarian and democratic systems, with the advantages and disadvantages of each given. The U. S. constitution, its powers, limitations and rights will be investigated along with major court cases. The role of the two-party system will be outlined as well as the roles of state and local government.

Government Dual (GOVT 2305) (SS61), .5 credit
Dual Credit with North Central Texas College
Grade: 12
GPA Level: 3
Prerequisite: Must meet TSI requirements

This course examines the institutional structures of government at both national and state levels (emphasizing Texas), including the legislative process, the executive and bureaucratic structures and the judicial process. Additional topics include civil rights and civil liberties, domestic policy, foreign relations, and national defense. Students who pass the course will receive 3 college hours of credit, and ½ credit of Government.

Economics (SS41), .5 credit
Grade: 12
GPA Level: 1

Explains the purpose of economic systems and the differences between those systems. The goals, benefits, and characteristics of the free enterprise system will be identified along with specific aspects such as supply and demand, business enterprises, stock markets and changing economic conditions will be investigated.

Economics Dual (ECON 2301) (SS62), .5 credit
Dual Credit with North Central Texas College
Grade: 12
GPA Level: 3
Prerequisite: Must meet TSI requirements

Macroeconomics focuses on how the American government functions as a whole. Concepts include aggregate supply and demand, production possibilities, trade, GDP, unemployment, inflation, fiscal policy, money supply, the Federal Reserve, and monetary policy. It is non-calculus based; so simple arithmetic and graphing skills are all that is needed. Students who pass the course will receive 3 college hours of credit, and ½ credit economics.

AP Macroeconomics (SS51), .5 credit
Grade: 12
GPA Level: 4
Prerequisite: see *Types of Courses* section for requirements

Advanced Placement Macroeconomics is a college-level course designed to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. Such a course places particular emphasis on the study of national income and price determination, and also develops familiarity with economic performance measures, economic growth, and international economics. College credit may be earned by taking the AP

Exam.

AP Microeconomics (SS50), .5 credit
Grade: 12
GPA Level: 4
Prerequisite: see *Types of Courses* section for requirements
Semester course designed to study how business enterprises operated in various markets, and how firms decide on price and quantity of production. College credit may be earned by taking the AP Exam.

Psychology (SS42), .5 credit
Grade: 10-12
GPA Level: 1
This course is a Social Studies elective. Students will explore the history of psychology from the earliest psychologist to the modern day. Includes discussion of approaches used today along with various theories. Studies include the relationship between mind and body, emphasizing different techniques to solve psychological problems.

Sociology (SS43), .5 credit
Grade: 10-12
GPA Level: 1
This course is a Social Studies elective. This course will investigate the history of sociology rising from the failure of the French Revolution. It will include approaches in the field today and the nature and influence of culture on society. The role that groups play in society along with the different types of leaders will also be investigated.

Psychology Dual (PSYC 2301) (A047), .5 credit
Dual Credit with North Central Texas College
Grade: 11-12
GPA Level: 3
Prerequisite: Must meet TSI requirements
An introduction to the scientific study of human and animal behavior, with the emphasis on the basic processes of learning, perception, motivation, emotion, personality and adjustment. Students who pass the course will receive 3 college hours of credit, and ½ credit psychology.

Sociology Dual (SOCI 1301) (SS65), .5 credit
Dual Credit with North Central Texas College
Grade: 11-12
GPA Level: 3
Prerequisite: Must meet TSI requirements
Sociology is the scientific study of human society, culture, social institutions, group interaction, social trends, social problems, and social change. NCTC offers six courses in Sociology. Courses vary by semester and campus. Each course emphasizes the fundamentals of scientific theory, methodology, social patterns, questioning commonly held assumptions, and expanding each student's intellectual horizons. Students who pass the course will receive 3 college hours of credit, and ½ credit sociology.

SCIENCE

Integrated Physics and Chemistry (IPC) (S100), 1 credit
Grade: 9
GPA Level: 1
Lab Science
This course is integrates the disciplines of physics and chemistry in the following topics: motions, waves, energy transformations, properties of matter, and solution chemistry.

Biology (S200), 1 credit
Grade: 9-10
GPA Level: 1
Prerequisite: None
Study of living things: each of the six kingdoms, anatomy and physiology of animals, plants, and the human body. Study cell processes, DNA, and genetics.

Biology Pre-AP (S201), 1 credit
Grade: 9-10
GPA Level: 2
Prerequisite: see *Types of Courses* section for requirements
Includes all aspects of Biology curriculum in addition to contemporary scientific research, and literary analysis of scientifically based text.

Chemistry (S300), 1 credit
Grade: 10
GPA Level: 1
Prerequisite: None
Lab Science
Chemistry is a study of matter and energy. The course includes the study of atomic structure, phases of matter, chemical periodicity and Periodic Table, bonding, chemical reactions, gas laws and stoichiometry. Many of the concepts in this course require mathematical reasoning and application.

Chemistry Pre-AP (S301), 1 credit
Grade: 10
GPA Level: 2
Prerequisite: Biology, see *Types of Courses* section for requirements
Lab Science
Pre-AP Chemistry is a course which includes all the concepts of Chemistry, but increases the challenge for those students with adequate mathematical background by providing additional opportunity for development of abstract reasoning and problem solving skills. This course is appropriate for motivated students considering further study in a science-related field. Students should expect approximately one to three hours of outside work per week. Scientific calculator recommended.

Physics (S400), 1 credit
Grade: 11-12
GPA Level: 1
Prerequisite: None
Lab Science
In Physics we take an in depth look at the why and how behind everyday phenomenon. This includes the basic study of motion and forces, energy, momentum, and rotation.

We also study the properties of fluids, heat, sound and light, as well as electricity, electricity flow and magnetism.

Physics Pre-AP (S401), 1 credit
Grade: 11-12
GPA Level: 2
Prerequisite: see *Types of Courses* section for requirements
Lab Science

Pre-AP Physics is a course which includes all the concepts of Physics, but increases the challenge for those students with adequate mathematical background by providing additional opportunity for development of abstract reasoning and problem solving skills. This course is appropriate for motivated students considering further study in a science-related field. Students should expect approximately one to three hours of outside work per week. Scientific calculator recommended.

Principles in Technology (S410), 1 credit
Grade: 11-12
GPA Level: 1
Prerequisite: Biology, see *Types of Courses* section for requirements
Lab Science

In Principles of Technology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Various systems will be described in terms of space, time, energy, and matter. Students will study a variety of topics that include laws of motion, conservation of energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behavior of waves.

Advanced Animal Science (CT46), 1 credit
Grade: 11-12
GPA Level: 1
Prerequisite: Biology

Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. *This is also a CTE course.*

Anatomy & Physiology (S403), 1 credit
Grade: 11-12
GPA Level: 1
Prerequisite: Biology

Anatomy and Physiology is a course of scientific inquiry which concentrates on the study of the human body. Students will learn not only the physical anatomy, but also the physiological response of the body to internal and external stimuli. In addition, the course addresses both inter-organism and intra-organism comparative studies. *This is also a CTE course.*

Environmental Systems (S407), 1 credit
Grade: 11-12
GPA Level: 1
Prerequisite: None

The Environmental systems class will provide a course of study which includes a variety of topics, including biotic and abiotic factors in habitats, ecosystems and biomes. Within an environmental system, students will study interrelationships among resources, sources and flow of energy, the relationship between carrying capacity, population changes and changes in environments. Environmental Systems is designed to give students an introduction to the major environmental problems facing the world and the scientific causes behind the problems. The course also teaches students how they are part of the problem and the solution.

GeoScience/Earth & Space Science (S505), 1 credit
OnRamps Dual Enrollment
Grade: 11-12
GPA Level:
Prerequisite: Biology and Chemistry

GeoScience is a dual enrollment class with UT Austin that studies the Earth and its systems from the beginning to current activity. Study areas include rocks and their properties, geologic maps, lake, readings, physical earth structures and their interactions. This a flipped class requiring independent work.

Physics (S), 1 credit
OnRamps Dual Enrollment
Grade: 11-12
GPA Level:
Prerequisite: Biology and Chemistry
Lab Science

This is an algebra-based (non-calculus) course in mechanics that fulfills a general physics requirement. Proficiency in algebra and geometry situations involving motion, force, energy , rotations, heat, oscillations, waves, and sound. Students will explore concepts in small groups, develop ideas, and explain them. This course lays the groundwork for college majors including engineering, physics, chemistry, or math.

AP Biology (S500), 1 credit
Grade: 11-12
GPA Level: 4
Prerequisites: Biology, see *Types of Courses* section for requirements
Summer Assignment Required

Full-year introductory college course in biology with laboratory work. Major content areas include molecules and cells; genetics and evolution, systems and interactions, and organisms and populations. Students should expect approximately 2-3 hour of outside work per week (homework or lab work).

AP Chemistry (S501), 1 credit
Grade: 11-12
GPA Level: 4
Prerequisite: Chemistry, see *Types of Courses* section for requirements
Lab Science
Summer Assignment Required

AP Chemistry is a full-year introductory college level

course in Chemistry with laboratory. The course will include the study of properties and composition of matter, including atomic and molecular structure, interactions of matter, both inorganic and limited organic topics. Students should expect approximately 2-3 hour of outside work per week (homework or lab work). A syllabus will be provided and scientific calculator recommended. The required summer assignment allows the class to begin at the recommended level of prior knowledge and provides a review of the first year of high school chemistry that will be expected of students.

LOTE

Spanish 1 (FL10), 1 credit
Grade: 8-12
GPA Level: 1

This introductory class is an initiation to the four basic skills of the Spanish Language: listening, speaking, reading, and writing. Emphasis is placed on practical vocabulary building, conversation skills and fundamental grammar structures. This class will also serve as an introduction to the cultures of the Spanish-speaking world and its impact on our own.

Spanish 1 Pre-AP (FL14), 1 credit
Grade: 9-12
GPA Level: 2

This advanced introductory class is designed for students that plan on continuing their Spanish studies into the higher levels. This class will develop the four basic elements of the language: listening, speaking, reading, and writing. Emphasis is placed on fundamental grammar structure, composition, vocabulary building and introductory conversational / reading practice. This class will also serve as an introduction to the cultures of the Spanish-speaking world and its impact on our own. Concepts will be covered more in depth than in the regular class and at faster pace

Spanish 2 (FL20), 1 credit
Grade: 9-12
GPA Level: 1
Prerequisite: Spanish I

Spanish 2 continues the development of language skills begun in Spanish 1. Greater emphasis is placed on speaking and reading skills, as well as the introduction of more advanced grammar structures. Students will further expand their abilities with the use of creative and expository writing and class presentations. This class will also serve as a deeper introduction to the history of Spanish culture (both in Latin America and Europe) and expose students to the growing volume of Spanish popular culture in the public media. At the completion of this course, students should attain the level of Novice Proficiency as set forth by the TEKS objectives for World Languages.

Spanish 2 Pre-AP (FL23), 1 credit
Grade: 9-12
GPA Level: 2
Prerequisite: Spanish 1, see *Types of Courses* section for requirements

Pre-AP Spanish 2 expands upon the basic Novice World Languages TEKS objectives and is designed for students interested in pursuing language study at an advanced level. In addition to the material covered in regular Spanish 2, stress is placed on oral and literary comprehension, as well as a greater understanding of Spanish culture (through readings, film, and student research projects). Students will also begin the development of persuasive compositions and the advanced grammar concepts that this area requires.

Spanish 3 Pre-AP (FL30), 1 credit
Grade Level: 10-12
GPA Level: 2
Prerequisite: Spanish 2, see *Types of Courses* section for requirements

Spanish 3 is recommended for those students who have achieved success at the lower levels. This class begins the study of Spanish language, literature, and culture in depth and is recommended for students wanting to place out of the college language requirement and pursue their studies at the university level. Advanced grammar concepts are introduced and studied at a much more rapid pace. Students will be required to demonstrate their continued proficiency through essays, readings, research projects and classroom conversations in addition to scheduled exams. Both students and teacher are expected to use their speaking skills as much as possible in the classroom.

Special Topics in Language & Culture (FL50), 1 credit
Grade: 9-12
GPA Level: 1
Prerequisite: Approval required

The study of world cultures is an essential part of education. In the 21st century classroom, students gain an understanding of two basic aspects of human existence: the nature of communication and the complexity of culture. Students become aware of multiple perspectives and means of expression, which lead to an appreciation of difference and diversity. Further benefits of foreign culture study include stronger cognitive development, increased creativity, and divergent thinking. Students who effectively communicate in more than one language, with an appropriate understanding of cultural context, are globally literate and possess the attributes of successful participants in the world community.

AP Spanish Language and Culture (FL41), 1 credit
Grade: 11-12
GPA Level: 4
Prerequisite: Spanish 3 Pre-AP, see *Types of Courses* section for requirements

AP Spanish Language is designed for students at the end of their grammatical study of the Spanish Language. Students will refine their oral, reading, writing, and listening skills acquired in their previous classes and finish final advanced grammar concepts. Concurrently, students will continue study of various cultural, societal, and historical topics prevalent in Spanish society (literature, music, popular media). With the exception of grammar explanations, classes at this level are conducted almost in Spanish. Class will culminate in the Spanish Language AP test in the spring.

PHYSICAL EDUCATION

Physical Education (P100-P400), 1 credit
Grade: 9-12
Students acquire the knowledge and skills for movement that provide the foundation for enjoyment, continued social development through physical activity, and access to a physically-active lifestyle.

Athletics, 1 credit
Grade: 9-12
Prerequisite: Must have coaches approval
Students participate in team or individual sports. Requires after or before school practices and out of town games. Enrollment is required for participation in team sports. Students must meet UIL rules for participation. Team sports include: baseball, basketball, football, softball, tennis, and volleyball.

Marching Band (BA01-BA04), .5 credit Fall
Grade: 9-12
Prerequisite: Must have Band Director approval
Physical Education credit may be earned by Marching Band course. *Students will receive PE credit for marching band for the **first** credit. A local credit will be awarded for any additional credits.*

Color Guard (BA1B, BA2B, BA34, BA44), .5 credit Fall
Grade: 9-12
Prerequisite: Must be selected to squad
Physical Education credit may be earned by Color Guard course. *Student will receive PE credit for color guard during fall semesters for the **first full** credit. A local credit will be awarded for any additional credits.*

FINE ARTS

Art I (FA10), 1 credit
Grade: 9-12
GPA Level: 1
This year-long course is designed as a beginning art class for students wishing to pursue upper level art courses as well as for those who wish to satisfy their fine arts requirement for graduation. Students will be introduced to the elements of art, principles of design, 2-D and 3-D media and techniques, art history, critical thinking, and creative problem solving. Students will be provided a supply list that they will be financially responsible for.

Art II Drawing (FA20), 1 credit
Grade: 10-12
GPA Level: 1
Prerequisite: Art I
This year-long course is for students interested in developing basic technical, compositional, and expressive skills using an array of drawing media. Students will discuss and critique related art from around the world and throughout history. They will also participate in class critiques where they will discuss their own artwork and the artwork of their classmates. Students will be provided a supply list that they will be financially responsible for.

Art III Drawing(FA30), 1 credit
Grade: 11-12
GPA Level: 1
Prerequisite: Art II Drawing
This year-long course is for the serious drawing student. Students will continue to advance in their technical, compositional, and expressive skills related to drawing. They will continue to critique art from around the world and throughout history, along with their own art and that of their classmates. Students will also create a personal portfolio based on evaluation of developmental progress, competency in problem solving, and a variety of visual ideas. Students will be provided a supply list that they will be financially responsible for.

Art IV Drawing(FA30), 1 credit
Grade: 11-12
GPA Level: 1
Prerequisite: Art III Drawing
This year-long course is for the serious drawing student. Students will continue to advance in their technical, compositional, and expressive skills related to drawing. They will continue to critique art from around the world and throughout history, along with their own art and that of their classmates. Students will also create a personal portfolio based on evaluation of developmental progress, competency in problem solving, and a variety of visual ideas. Students will be required to keep a sketchbook. Students will be provided a supply list that they will be financially responsible for.

Art II Ceramics (FA22), 1 credit
Grade: 10-12
GPA Level: 1
Prerequisite: Art I
This year-long course is for the serious drawing student. Students will create a thematic portfolio of drawings and paintings that demonstrates knowledge, creativity and skill. They will continue to discuss and critique their work, the work of their classmates and related works throughout history.. Students will be provided a supply list that they will be financially responsible for.

Art III Ceramics (FA30), 1 credit
Grade: 11-12
GPA Level: 1
Prerequisite: Art II Ceramics
This year-long course is for the serious ceramic student. Students will continue to advance in their technical, compositional, and expressive skills related to ceramics.

Students will continue to discuss and critique their artwork, the artwork of their classmates, and related works throughout history. Students will also create a personal portfolio based on evaluation of developmental progress, competency in problem solving, and a variety of visual ideas. Students will be provided a supply list that they will be financially responsible for.

Art IV Ceramics, 1 credit
Grade: 12
GPA Level: 1
Prerequisite: Art III Ceramics

This year-long course is for the serious ceramic student. Students will create a thematic portfolio of ceramic work that demonstrates knowledge, creativity, and skill. They will continue to discuss and critique their work, the work of their classmates, and related works throughout history. Students will be required to keep a sketchbook. Students will be provided a supply list that they will be financially responsible for.

Band – Concert (BA13, BA23, BA33, BA43), .5 credit spring
Grade: 9-12
GPA Level: 1

Open to any instrumentalist. Students will participate in a rigorous music curriculum that includes UIL, research, and the study of advanced literature. Assignments change each semester throughout the course of HS.

Band – Jazz (BA11, BA21, BA31, BA41), 1 credit
Grade: 9-12
GPA Level: 1
Prerequisite: Must be concurrently enrolled in a Concert Band class.

Open to any instrumentalist by audition. Students will study a wide variety of jazz literature, history and styles.

Chamber Singers (CH15), 1 credit
Grade Level: 9-12
GPA Level: 1
Prerequisite: Must have director approval

Chamber Singers is an ***auditioned choir*** open to ninth through twelfth grade men and women and specializes in the performance of mixed choir music. Students enrolled in the course will develop singing, listening, sight-reading, and music theory skills. Chamber Singers travels to UIL Concert & Sight-Reading Contest each year as a mixed choir and also competes in local and regional choral competitions. Membership requires attendance at extracurricular activities, including concerts, rehearsals, and/or sectionals.

Theater Arts I-IV (FA12, FA24, FA33, FA40), 1 credit
Grade: 9-12
GPA Level: 1

In this class you will experience many different aspects of theatre. Our goal is to improve your performance level, your knowledge of theatre, and, most importantly, your self-confidence. You will be trained in the fundamental skills of the theatre arts, including improvisation techniques, body control, voice, diction, pantomime, auditioning, learning of lines, creation of character, projection of ideas and emotions and preparation and acting of scenes from plays. Acting projects will provide positive group experiences in collaborative assignments, developing self-discipline, evaluating the performances of others, and accepting constructive criticism. Instruction develops language skills and appreciation through reading dramatic literature; using written critiques; writing dramatic scenes, character analyses, play reports, and introductions; observing with sensitivity; listening critically; and speaking effectively.

Technical Theatre I-IV (FA14, FA2A, FA3A), 1 credit
Grade: 9-12
GPA Level: 1

In this class you will experience many different aspects of theatre. Our goal is to improve your performance level, your knowledge of technical theatre, and, most importantly, your self-confidence. Technical Theatre is a hands-on introduction to the understanding, designing, crafting and execution of theatrical productions. Our objective is to learn the basics of theatre terminology and to obtain the hands-on skills to properly execute the basic theatre production. You will come from this course a better problem solver, carpenter, electrician and leader.

AP Music Theory (BA50), 1 credit
Grade: 11-12
GPA Level: 4
Prerequisite: see *Types of Courses* section for requirements

AP Music Theory is a year-long course that examines the harmony and form of Western European art music from the Baroque, Classical, and Romantic eras, approximately 1700-1900. An in-depth examination of music notation, harmonic analysis, and composition will be supplemented with instruction include ear-training and sight-sing. Special topics in post-tonal (20th century) music will be explored from the date of the AP Exam until the end of the school year.

SPEECH

Professional Communications (CT63), .5 credit
Grade: 9 -12, *recommended for grade 9*
GPA Level: 1

This high school speech course is designed to provide opportunities for students to understand and develop effective interpersonal communication skills for the 21st Century. Professional Communications blends written, oral, and graphic communication in a career-based, business environment. Students will prepare, present, and evaluate a variety of multimedia presentations that are appropriate for the professional setting.

JOURNALISM

Photojournalism (E302), 1 credit
Grade: 9-12
GPA Level: 1

Students enrolled in Photojournalism will gain experience in photographing people and events in natural lighting with digital cameras. High school students will study the laws and ethical considerations that impact photography. Published photos of professional photojournalists, technology, and electronic media are used as tools for learning as students create, clarify, critique, and produce effective visual representations. Students enrolled in this course will learn to edit photos and design pages through the use of Photoshop and InDesign software. Students will show their creativity as they refine and enhance their journalistic skills by planning, preparing, and producing photographs for a journalistic publication whether print, digital or online media. Students are responsible for the proper care and handling of our digital cameras.

Yearbook (E306, E406, E407), 1 credit
Grade Level: 10-12
GPA Level: 1
Prerequisites: Must be approved by teacher, recommended Photojournalism

Yearbook gives students marketable experience in print media publishing. This course solely works toward the completion and selling of a large finished product, Krum High School's yearbook. Yearbook class is a real business maintaining an account that must balance-out at the end of term. In class, students compose, construct, and edit all elements of computerized text layout, graphic art, and digital photography. Students work on many clerical operations, make announcements, maintain signs, conduct student polls, take photos, and write articles. The course in turn covers many of the content standards and objectives encountered in English courses, as does it also for objectives of art, business, and computer technology courses. Because Yearbook is a monetary business, students must cooperatively work with others, must be hardworking, and be eager to be creative. Out of class and after school, students will shoot digital photos, sell and design advertising, and distribute yearbook order forms. Students are responsible for the proper care and handling of our digital cameras. Pairs or groups of students should expect to spend some of their time before and after school working on computerized yearbook pages.

CAREER & TECHNICAL EDUCATION

Agriculture, Food, Natural Resource & Manufacturing

Principles of Agriculture, Food & Natural Resources (9802), 1 credit
Grade: 8
GPA Level: 1

Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. To prepare for success, students need opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.

Livestock Production (CT32), 1 credit
Grade: 9-12
GPA Level: 1
Prerequisite: recommended Principles in Agriculture, Food & Natural Resources

In Livestock Production, students will acquire knowledge and skills related to livestock and the livestock production industry. Livestock Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Horticulture Science (CT20), 1 credit
Grade: 9-12
GPA Level: 1

Horticultural Science is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticulture and the workplace, and develop

knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings.

Equine Science, (CT22), .5 credit
Grade 10-12
GPA Level: 1

In Equine Science, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules. To prepare for careers in the field of animal science, students must enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Small Animal Management, (CT21), .5 credit
Grade: 10-12
GPA Level: 1

In Small Animal Management, students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds. To prepare for careers in the field of animal science, students must enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings.

Food Technology and Safety (CT2A), 1 credit
Grade: 10-12
GPA Level: 1

Food Technology and Safety examines the food technology industry as it relates to food production, handling, and safety. To prepare for careers in value-added and food processing systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to value-added and food processing and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Floral Design (CT30), 1 credit
Grade: 10-12
GPA Level: 1

Floral Design is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations. To prepare for careers in floral design, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Advanced Plant and Soil Science (CT35), 1 credit
Grade: 10-12
GPA Level: 1
Prerequisite: recommended Biology, IPC, Chemistry, or Physics; Principles in Agriculture, Food & Natural Resources, Horticulture and Principles and Elements of Floral Design

Advanced Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. To prepare for careers in plant and soil science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to plant and soil science and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Veterinary Medical Applications, (CT09), 1 credit
Grades 11-12
GPA Level: 1

Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings.

Architecture & Construction

Architectural Design II, 2 Credits
Grade: 11-12
GPA Level: 1
Prerequisite: Architectural Design I
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Advanced E- green architecture begins to prepare the student for a career in the architectural field. The learner will use advanced AutoCAD principles to draw and design several residential structures of different historical influences. Environmental green materials and applications will be studied and applied to these designs as a continuation of 21st century technology. The student will learn safety procedures of all equipment used to build architectural models for TSA competitions. Active and passive solar energy applications will be researched and applied to the final design of all plans.

Practicum of Architectural Design, 2 Credits

Grade: 12
GPA Level: 1
Partnerships: Homebuilders Association of Greater Dallas and Denton & National Center for Construction Education Research
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Practicum students will have advanced projects that transcend a traditional classroom. Students will work on E-Green design problems modeled to meet university standards. Advanced environmental green materials and applications will be studied and applied to these designs as a continuation of 21st century technology. Active and passive solar energy applications will be researched and applied to the final design of all plans.

Arts, A/V Technology, & Communication

Principles of Arts, Audio/Video Technology, and Communications (CT10), 1 credit
Grade: 9-12
GPA Level: 1

Careers in the Arts, Audio/Video Technology, and Communications career cluster require, in addition to creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

Audio/Video Production I (CT25), 1 credit
Grade: 9-12
GPA Level: 1
Prerequisite: recommended Principles in Arts, A/V Technology & Communications

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video activities.

Audio/Video Production II (D052), 1 credit
Grade: 10-12
GPA Level: 1
Prerequisite: Audio Video Production I
Partnerships: The Crouch Group
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

The Advanced Audio/Video Production is a course designed for students to continue learning all three phases of the production process as well as using nonlinear editing using Apple's Final Cut Pro Studio software. This course is project based, where students write, storyboard, videotape and edit their advanced projects

Commercial Photography I (D034), 1 credit
Grade: 11-12
GPA Level: 1
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

For the shutterbugs! For students who love to take pictures but want to take it to the next level – commercial photography covers everything from setting up a shot to delivering the finished product in a competitive market. Students will develop knowledge of different types of cameras and lenses and their applications to photography. They will also develop the knowledge and skills necessary to analyze customer needs and preferences, apply the principles of art to photographs, and develop photographs using a variety of production processes

Commercial Photography II (D050), 1 Credit
Grade: 11-12
GPA Level: 1
Prerequisite: Commercial Photography I
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Advanced Commercial photography develops advanced skills and knowledge in commercial photography projects. Students' knowledge will increase in creating photographs for defined purposes, applying elements and principles of design to projects, choosing appropriate camera equipment for projects, and selecting appropriate production processes for the finished product.

Animation I (D043), 1 Credit
Grade: 10-12
GPA Level: 1
Prerequisite: Art I or Principles of Art, A/V Technology and Communications
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

The student will use Adobe Flash to create animations, games, renders of the hand and face, create a website, place their work onto a website, create animations for cell phones, industry control panels, company logos, advertising, and local current business applications. A portfolio will be the student's final product.

Animation II (D046), 1 Credit
Grade: 11-12
GPA Level: 1
Prerequisite: Animation I
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

The student will use New Tek, 3D Lightwave v. 9.6 software on multi-processor computers to model, light, surface texture, animate, camera shoot and render characters and projects as directed by the instructor. Upon completion of this program the student will have created and animated 3D models embedded into scenes.

Graphic Design & Illustration I (CT69), 1 Credits
Grade: 10-12
GPA Level: 1
Prerequisite: recommended Principles of Art, A/V Technology and Communications
Partnerships: Adobe Corp., Alpha Graphics

A course for creative and artistic students, this course will appeal to students who enjoy designing and creating projects that communicate visually. Graphic Design and

Illustration is a creative study of the art of visual communications and advertising through creativity, illustration, design, analysis, approach and technical skills. Students will improve communication skills by learning to communicate visually, describe and defend their work, interview clients, present completed layouts and develop electronic and a print portfolios.

Graphic Design & Illustration II (D032), 1 Credit
Grade: 10-12
GPA Level: 1
Prerequisite: Graphic Design & Illustration I
Partnerships: Adobe Corp., Alpha Graphics
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Advanced Graphic Design and Illustration will be a more in-depth study of illustration and visual communication with demonstrated ability to create, illustrate and communicate complicated ideas or designs with regards to technique and layout skills. Advanced students will be involved in projects for real world situations or clients. Additionally, students will have an opportunity for certification in Adobe Photoshop CS4.

Business Management and Administration

Principles of Business, Marketing and Finance (CT15), 1 credit
Grade: 9-12
GPA Level: 1

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Throughout this course, students will improve and master technology skills, including computer software applications and internet research.

Business Information Management (BIM) (CT11), 1 credit
Grade: 9-12, *recommended for grade 9*
GPA Level: 1
Prerequisite: recommended Principles in Business, Marketing, and Finance

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

Global Business (CT65), .5 credit
Grade: 10-12
GPA Level:

Students will analyze global trade theories, international monetary systems, trade policies, politics,and laws relating to global business as well as cultural issues, logistics, and international human resource management.

Business Law (CT37), 1 credit
Grade: 11-12
GPA Level: 1
Prerequisite: recommended Principles in Business, Marketing, and Finance

Students analyze the legal and social responsibility of business through engaging projects and case studies. Issues addressed relate to the legal environment, business ethics, contracts, negotiable financial instruments, personal property, sales, warranties, business organizations, and employment. Students apply technical skills to address business applications of contemporary legal issues. Students incorporate a broad base of knowledge to make appropriate business decisions that includes the legal, managerial, marketing, financial, and ethical scope of business.

Human Resource Management (CT38), .5 credit
Grade: 11-12
GPA Level: 1
Prerequisite: recommended Principles in Business, Marketing, and Finance

Students analyze the primary functions of human resource management, which include recruitment, training, and compensation. Students explore topics addressing equal employment opportunities, career development, employee benefits, and job safety and health. Students develop a foundation in human resources in order to become competent managers, employees, and entrepreneurs. Incorporating a broad base of knowledge, students will be able to make appropriate human resource decisions.

Education and Training

Instructional Practices (D002), 2 credits
Grade: 11-12
GPA Level: 1
Prerequisite: recommended: Principles of Education and Training
Partnerships: TWU., UNT, and NCTC Education Department
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Do you want to be in an internship program designed to equip the student with direct hands-on learning experiences in elementary/middle school classrooms? Students work under the joint direction and supervision of the elementary/middle school teacher and the high school instructor. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop activities for educational environments and complete responsibilities of teachers in general.

Practicum in Education and Training, 2 credits
Grade: 12
GPA Level: 1
Prerequisite: Instructional Practice in Education and Training
Partnerships: TWU., UNT, and NCTC Education Department
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Practicum in Education and Training provides and advanced educational internship conducted with an exemplary teacher in one of Denton ISD's Pre-K, Kindergarten, Elementary classes or Middle School classes. Students will plan and present lessons, supervise individualized instruction and group activities, prepare instructional materials, assist with record keeping, manage the physical environment and other

teacher responsibilities as assigned by the instructor.

Finance

Money Matters (CT1M), 1 credit
Grade: 10-12
GPA Level: 1
Prerequisite: recommended Principles in Business, Marketing and Finance

Money Matters will promote financial responsibility among teens by building their basic money management skills. Students will apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to set long-term financial goals through investment, tax planning, asset allocation, risk management, retirement planning, and estate planning. We will complete several real world activities based on 4 major units of study.

Accounting I (CT29), 1 credit
Grade: 11-12
GPA Level: 1
Prerequisite: recommended Principles of Business, Marketing, and Finance

Students investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on the is knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information.

Accounting II (CT3B), 1 credit
Grade: 11-12
GPA Level: 1
Prerequisite: Accounting I

Students continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in various managerial and cost accounting activities. Students formulate and interpret financial information for use in management decision making.

Government and Public Administration

Foreign Service and Diplomacy, 1 credit
Grade: 11-12
GPA Level: 1
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Foreign Service includes knowledge of diplomacy and the impact of government and culture on world affairs. Students will be required to apply skills and knowledge of the United States in regard to laws, regulations, policies, procedures and customs of other countries. Diplomatic operations on a local, state, and national level will be reviewed and the student will understand working collaboratively with military and paramilitary structures. Analysis of requirements of citizenship (identification and documentation), national and international travel and laws are required. Leaders in the field will be frequent guest speakers.

National Security (D021), 1 credit
Grade: 10-12
GPA Level: 1
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

National Security includes knowledge of maintaining a strong national security and encompasses such activities as operating a security agency, responding to disasters (participating in Community Emergency Response Teams/CERT), leadership skills and intelligence information. It also includes mitigating and preparing for the possible effects of chemical, biological or nuclear event and understanding the use of Geographical Information Systems (GIS) on a local, state, and national level. Understanding of and ability to work collaboratively with military and paramilitary structures is a necessary addition. Leaders in the field will be frequent guest speakers.

Health Science

Principles of Health Science (CT12), 1 credit
Grade: 9-12
GPA Level: 1

Are you interested in the field of medicine?? The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the healthcare industry.

Medical Terminology (CT13), 1 credit
Grade: 9-12
GPA Level: 1
Prerequisites: Principles in Health Science recommended

Medical terminology is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, combining forms, and singular and plural forms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

Health Science (D003), 1 credit
Grade: 11-12
GPA Level: I
Prerequisite: Principles of Health Science and Medical Terminology
Partnerships: Denton Regional Medical, Presbyterian Hospital of Denton, Denton Fire Department
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

This course is designed to provide for the development of multi-occupational knowledge and skills related to a wide variety of health care careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as laboratory, clinical rotation, or cooperative education. Student maybe placed in clinical rotation internships at the hospitals; this placement is a privilege, not a

guarantee.

Practicum in Health Science (D012, D015, D016), 2 credits
Grade: 12
GPA Level: I
Prerequisite: Health Science
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

The course may be taught by different methodologies such as laboratory, cooperative education or an occupationally specific course with clinical training. Student may be placed in clinical rotation internships at the hospitals; this placement is a privilege, not a guarantee. Students have the opportunity to job shadow in the areas of Certified Nursing Assistant, Pharmacy Technician, Pre-Veterinary and Pre-Licensed Vocational Nurse.

Hospitality and Tourism

Culinary Arts (D005) 2 credits
Grade: 11-12
GPA Level: 1
Partnerships: Texas Restaurant Association and Greater Dallas Restaurant Association.
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

This is an introductory course into the professional world of food production. The student will have the opportunity to explore many facets of the food service industry. There is a nationally recognized certification that accompanies this course and once completed the learner will focus on basic food preparation skills. There will be practical experiences to accompany the course work through the various catering opportunities that are offered to our students.

Practicum in Culinary Arts, 2 credits
Grade: 12
GPA Level: 1
Prerequisite: Culinary Arts
Partnerships: Texas Restaurant Association and Greater Dallas Restaurant Association.
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

The student will expand upon the basic skills that they developed in culinary arts, through more in depth baking as well as exploring international cuisines. They will take on the role of leadership during the catered events thus developing their managerial skills.

Introduction to Culinary Arts, 1 credit
Grade: 11-12
GPA Level: 1
Prerequisite: Culinary Arts
Partnerships: Texas Restaurant Association and Greater Dallas Restaurant Association.
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

The participants will manage the school bistro as a student-run business. They will be responsible for menu selections, production schedules as well as any marketing strategies. They will develop a daily menu of offerings as well as coming up with a standardized schedule of daily specials. They will be held accountable for the cleanliness of the bistro as well as ensuring that all food meets sanitation requirements as outlined in Servsafe.

Hospitality Services, 2 credits
Grade: 11-12
GPA Level: I
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Students will develop the skills needed to excel in careers including; Hotel and Restaurant Manager, Cruise Ship Director, Chef, Amusement Park Manager, Travel Agent, and many more. Instruction will be delivered through classroom instruction and/or internships in community hotels. Example of skills covered include: communications and guest services, hotel ownership types, career exploration, security, ethics, forecasting, housekeeping, food service, and travel and tourism.

Practicum in Hospitality & Tourism, 2 credits
Grade: 12
GPA Level: 1
Prerequisite: Hospitality Services
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Students will continue to develop skills in the hospitality industry with a focus on management tasks. Instruction will be delivered through classroom instruction and/or internships in community hotels. Skills covered include: leadership and management, management communication skills, team-building, interviewing, sales and marketing, and event planning.

Human Services

Principles of Human Services (CT18), 1 credit
Grade: 9-12
GPA Level: 1

Do you have a desire to serve others? Have you always wanted to work with people? Do you feel called to help those around you? Human Services is a LARGE career cluster designed to introduce students to the MANY different areas in Family and Consumer Sciences. This interactive yet informative course will introduce the following career areas: Counseling and Mental Health, Early Childhood Development, Family and Community Services, Consumer Services, and Personal Care Services. Students will also gain a foundation of knowledge and skills in each of these areas.

Interpersonal Studies (CT2H), .5 credit
Grade: 10-12
GPA Level: 1
Prerequisites: recommended Principles of Human Services

Everyone we meet and everywhere we go -- relationships are being developed. Learn the ins and outs to being successful in ALL of LIFE's varying interactions. Beginning with personal development, this course takes you through the

Life Cycle; emphasizing skills and knowledge that are beneficial to each stage. Along with examining how relationships are built; students will also be introduced to techniques to enhance these connections, strategies to help manage multiple adult roles, and coping methods needed for handling LIFE's various ups and downs. Careers related to the Counseling and Mental Health Services area will also be examined in this insightful and enlightening course.

Child Development (CT51), 1 credit
Grade: 10-12
GPA Level: 1
Prerequisites: recommended Principles of Human Services

YES – This is the class with the electronic baby simulators!!! Students will enjoy many hands on and interactive activities introducing them to the various aspects in child growth and development. Starting with Prenatal Care through School Age Child, this course is designed to give our students VALUABLE knowledge and skills needed to promote the well-being and healthy development of children. We will address current topics and trends associated within child development as well as research and analyze historical theory and methods. Our goal is to equip ALL students with the skills needed for the successful guidance of our future generations!

Counseling and Mental Health (CT2K), 1 credit
Grade: 11-12
GPA Level: 1
Prerequisites: recommended Principles of Human Services

Would you enjoy a career as a Counselor or Therapist? Counseling and Mental Health is a course designed to introduce students to the knowledge and skills necessary to pursue a career choice in this area. Students will be expected to understand ethical and legal responsibilities, professional integrity, and gain insight into the complex world of mental health. This class will take a look inside the workings of the human brain, analyze the reasons behind thought process and emotional development, as well as learn about the various methods and techniques needed to assist those in need of mental and emotional support.

Lifetime Nutrition and Wellness (CT2L), .5 credit
Grade: 10-12
GPA Level: 1
Prerequisites: recommended Principles of Human Services

In the Kitchen is where you will find us for this course!! Learn all about keeping our bodies healthy and well through our food choices! This interactive class takes students from behind the desk and places them in front of a stove as they learn the best ways to prepare delicious snacks and meals. Along with cooking techniques, students will be introduced to safety and sanitization principles, food storage methods, and the changing nutritional needs across the lifespan. This course is a MUST HAVE for all students – especially those in need of learning the basics behind preparing and planning meals!

Cosmetology I & Intro to Cosmetology (D006-D007), 4 credits total
Grade: 11-12
GPA Level: I
Partnership: Sally Beauty Supply Corporation
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Cosmetology includes the knowledge and application of the principles and practices of the treatment of the hair, skin, and nails in accordance with licensing requirements. Students will develop the skills required to be competitive in the field of Cosmetology including cutting, coloring, texture services, waxing, and styling. In addition, students will also develop highly needed skills for success: group participation, leadership, appropriate work habits, safety and sanitation procedures, customer service, and communication with workers as well as clientele. Students are expected to complete 500 hours during the school year, so good attendance is essential.

Cosmetology II & Cosmetology Problems & Solutions (D019-D020), 4 credits total
Grade: 12
GPA Level: I
Prerequisite: Cosmetology I
Partnership: Sally Beauty Supply Corporation
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Cosmetology II continues subjects begun in Cosmetology I. After completion of the 1000 hours of laboratory work, students are eligible for the licensure examination. Cosmetology is regulated by the State of Texas, and students must successfully pass a written and practical exam in order to receive their Cosmetology License. This course requires extended attendance on designated evenings.

Information Technology

Principles of Information Technology (CT56), 1 credit
Grade: 9-10
GPA Level: 1

Students develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.

Digital Media (CT26), 1 credit
Grade: 9-12
GPA Level: 1
Prerequisite: none

Have you ever seen an advertisement or edited sports photo and wondered, "How did they do that?" *Digital & Interactive Multimedia* provides students a hands-on experience with current technology in the marketplace and its application in information technology. A wide range of current software will be explored. Students will use their creativity and skills to create and edit interactive multimedia presentations; including digital images, sound, animation and web pages. The knowledge and skills acquired in this class will enable students to successfully perform and interact in today's technology-driven society. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.

Web Technologies (CT3F) 1 credit
Grade: 10-12
GPA Level: 1

Prerequisite: recommended Principles of Information Technology

Through the study of web technologies and design, students learn to make informed decisions and apply the decisions to the field of information technology. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students enhance reading, writing, computing, communication, and critical thinking and apply them to the information technology environment.

Geographical Information Systems, 1 credit
Grade: 11-12
GPA Level: I
Prerequisite: Intro to Geographical Information Systems
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Have you ever GOOGLE Earthed your home? Learn how to create and use the technology which is called Geographic Information Systems. GIS has been identified as an emerging high demand skill. Students will participate in structured, applied learning exercises based on data from the Denton area, as well as conduct a new study of these data sources through self-driven study and analysis. *(Accelerated: Double Blocked for One Semester)*

RASTER Based Geographical Information Systems, 1 credit
Grades: 11-12
GPA Level: I
Partnership: City of Denton
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

The second GIS course is based on the RASTER technology. A computer course that builds on skills learned in the Introduction to Geographical Information Systems and applies toward certification. Student will learn the skills required to work on and/or build a Geographic Information System/Remote Sensing project. Students will follow a course of hands-on instruction to learn skills ranging from introductory digital mapping to 3D mapping and image analysis. Students will be introduced to each skill with a real world application and led in the problem solving process. *(Accelerated: Double Blocked for One Semester)*

Spatial Technology and Remote Sensing, 1 credit
Grade: 12
GPA Level: 1
Prerequisite: Geographical Information Systems
Partnership: City of Denton
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

This is a project-based class used in preparation for the GIS SPACESTARS Certification Exam. Each student will need to complete one project and achieve 70% or higher on the written S.T.A.R.S. exam to become S.T.A.R.S. certified. Each project integrates project planning, geographic problem solving, tools, GIS software applications, data creation / manipulation, and project management. *(Accelerated: Double Blocked for Fall Semester)*

Law, Public Safety, and Security

Court Systems and Practices, 1 credit
Grade: 11-12
GPA Level: 1

Computer Maintenance, 2 credits
Grade: 10-12
GPA Level: I
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Computer Maintenance helps prepare students for entry-level career opportunities, continuing education, and globally-recognized Comptia A+ and Server+ certifications. Computer Maintenance covers the fundamentals of computer hardware and software as well as advanced concepts. Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install an operating system and troubleshoot using system tools and diagnostic software. Students will also be able to connect to the internet and share resources in a network environment.

Computer Technician Practicum, 2 credits
Grade: 11-12
GPA Level: I
Prerequisite: Principles of Information Technology, Computer Maintenance
Course taught at the Advanced Technology Complex (ATC), see page 26 for details.

Students gain knowledge and skills in the area of computer technologies, including advanced knowledge of electrical and electronic theory, computer principles and components related to the installation, diagnosis, service, and repair of computer-based technology systems. Students will reinforce, apply and transfer their knowledge and skills to a variety of settings and problem solving situations. Students also prepare computers for the Computers for Kids Program and provide professional repair service to the community

Cisco Internetworking Technologies I & II (D057, D058), 2 credits
Grade: 11-12
GPA Level: 1
Prerequisite: Recommended: Technical Reading Skills, Computer Proficiency
Partnerships: Cisco Systems, Inc.
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Cisco Internetworking I / II helps prepare students for entry-level career opportunities, continuing education, and globally-recognized Cisco CCENT and CCNA certifications. Cisco Internetworking I/II provides general networking theory, practical experience and opportunities for career exploration and soft-skills development. The curriculum teaches networking based on application, covering networking concepts within the context of network environments students may encounter in their daily lives – from small office and home- offIce (SOHO) networking to more complex enterprise and theoretical networking models later in the curriculum. Cisco Internetworking I/II is designed for students with basic PC skills and foundational math and problem solving skills. The curriculum offers an engaging learning experience for more visual and kinesthetic learners. Many interactive activities are embedded in all of the courses to break up the text, help reinforce student comprehension and encourage additional hands-on practice.

Partnership: Denton County District Attorney's office
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Court Systems and Practices is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. In addition to classroom learning, the student will hear lectures from individuals employed in the community in related fields. Students will participate in scenarios using skills from this course and academic courses to prepare various forms of grammatically correct communication, both orally and in writing. The class will participate in various mock trials, demonstrating mastery of knowledge and skills.

Practicum in Law, Public Safety, Corrections & Security, 2 credits
Grade: 12
GPA Level: I
Prerequisite: Court Systems & Practices
Partnership: Denton County District Attorney's office
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

The Practicum will allow advanced students to intern within the court and legal service in Denton County. The Internship is designed to give students supervised practical application of previously studied knowledge and skills. Students must meet strict guidelines that govern community placement. Placement is not a guarantee, but an earned opportunity for the serious student. Internship location may be at Denton County District Attorney's office or at a local private law firm.

Law Enforcement I (D053), 1 credit
Grade: I1-12
GPA Level: I
Partnerships: Denton County Sheriff's Department
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime. Law Enforcement I is an overview of the history, organization, and functions of local, state and federal law enforcement. Students will learn the basics of criminal scene investigations.

Law Enforcement II (D054), 1 credit
Grade: 12
GPA Level: I
Prerequisite: Law Enforcement I
Partnerships: Denton County Sheriff's Department
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Law Enforcement II includes knowledge of and preparation for postsecondary education and training or employment in the law enforcement field in the areas of forensic science, communications, law enforcement and investigations. The rules, regulations, laws, and techniques that assist the law enforcement professional are applied through the use of a variety of tools and equipment.

Correctional Services (D055), 1 credit
Grade: 11-12
GPA Level: I
Partnerships: Denton County Sheriff's Department
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Correctional Services includes knowledge of and preparation for certification or employment in the corrections field. The rules, regulations, laws, and techniques that assist the correctional professional are part of the required curriculum that includes requirements set by the Texas Commission on Law Enforcement Officers Standards and Education (TCLEOSE) and the American Correctional Association. The history of corrections, behavior, communication skills, laws, conflict resolution, and technical skills are emphasized. Leaders in the field will be frequent guest speakers.

Forensic Science (D035), 1 credit
Grade: 11-12
GPA Level: I
Partnership: City of Denton, Police Department
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Forensic Science is a course focusing on the drive to unlock the mystery of crimes through the application of science. It is designed to provide students with an introductory understanding of criminology. Knowledge and skills will be gained in hair/fiber analysis, blood type analysis, Bloodstain patters, DNA, and fingerprint comparison. *(Accelerated: Double Blocked for One Semester)*

Disaster Response (D036), 1 credit
Grade: 11-12
GPA Level: I
Partnership: Denton County Emergency Management
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Disaster Response is a course in which students may become CERT certified in order to work as a volunteer emergency team member or perhaps as a preparation for employment with the Federal Emergency Management Administration (FEMA). *(Accelerated: Double Blocked for One Semester)*

Manufacturing

Ag Mechanics & Metal (CT24), 1 credit
Grade: 9-12
GPA Level: 1

Students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. The study of manufacturing technology allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting. Students also gain an understanding of career opportunities available in manufacturing and what employers require to gain and maintain employment in these careers.

Introduction to Welding(CT66), 1 creditc
Grade: 11-12
GPA Level: 1
Prerequisite: recommended Ag Mechanics & Metal or Principles in Manufacturing

Rapid advances in technology have created new career opportunities and demands in many industries. Precision Metal Manufacturing provides the knowledge, skills, and technologies required for employment in metal technology systems. This course may also address a variety of materials in addition to metal such as plastics, ceramics, and wood. Students develop knowledge of the concepts and skills related to these

systems to apply them to personal and career development. This course supports integration of academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

Welding I (CT2C), 2 credits
Grade: 10-12
GPA Level: 1
Prerequisite: recommended Principles in Manufacturing or Welding

This course is an entry level technical welding course. The course is designed for the beginner with little or no welding experience who is interested in pursuing a course of study that can lead to an American Welding Society (AWS) entry level certification. Course curriculum follows American Welding Society "SENSE" guidelines to prepare the serious student for Entry Level certification testing after completing "Welding II".

Welding II (CT3C), 2 credits
Grade: 11-12
GPA Level: 1
Prerequisite: recommended Principles in Manufacturing, Welding, and Precision Metal Manufacturing

This advanced welding program will follow American Welding Society "SENSE" guidelines to prepare the serious students for Entry Level certification testing after completing "Welding II". Students will complete individual projects to demonstrate industry competencies.

Marketing, Sales & Services

Retailing and E-Tailing, 1 credit
Grade: 11-12
GPA Level: I
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Web design in the classroom! This course is designed to give the student an introduction to both the practicing theory of E-commerce and the various technologies used in creating web sites in which selling products is key. Students will coordinate online and offline marketing and will demonstrate critical thinking skills using decision making models, case-studies, various technologies and business scenarios

.*Science, Technology, Engineering, and Mathematics (STEM)*

PROJECT LEAD THE WAY PRE-ENGINEERING --
Students may begin the three year program in the 10th grade or later, but must take the courses in sequence in order for the training and education to be most effective. The courses are outlined in their proper sequential order.

Introduction to Engineering Design (D030), 1 credit
Grade: 10-12
GPA Level: I
Partnerships: University of North Texas, Engineering Department
Year 1: Semester 1
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Have you ever tried to design something or draw up an idea? Have you wondered how someone designed the new MP3 player or new phone? This course teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed, and communicated using solid modeling computer design software. Students will have the opportunity to test for university credit. *(Accelerated: Double Blocked for One Semester)*

Computer Integrated Manufacturing(D031), I credit
Grade: 10-12
GPA Level: I
Prerequisite: Introduction to Engineering Design
Partnerships: University of North Texas, Engineering Department
Year 1: Semester 2
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

This course applies principles of robotics and automation and builds on computer solid modeling skills developed in Introduction to Engineering Design. Students use CNC equipment to produce actual models of their three dimensional designs. Fundamental concepts of robotics used in automated manufacturing, and design analysis are included. Students will have the opportunity to test for university credit. *(Accelerated: Double Blocked for One Semester)*

Principles of Engineering, 1 credit
Grade: 11-12
GPA Level: I
Prerequisite: Year 1 Engineering Courses
Partnerships: University of North Texas, Engineering Department
Year 2: Semester I
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

PLTW philosophy: By engaging in hands-on, real-world projects, students understand how the skills they are learning in the classroom can be applied in everyday life. This approach is called activities-based learning, project-based learning, and problem-based learning or APPB-learning . Principles Of Engineering™—Through projects students will explore various technology systems and manufacturing processes to learn how engineers and technicians use math, science and technology in the engineering problem solving process. The successful student can earn University credit with the end of course exam. (Accelerated: Double Blocked for One Semester)

Civil Engineering and Architecture, 1 credit
Grade: 11-12
GPA Level: I
Prerequisite: Year 1 Engineering Courses and Principles of Engineering
Partnerships: University of North Texas, Engineering Department
Year 2: Semester 2
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Ever think about building a house, a store, a restaurant, and wondered how to go about it? Then Civil Engineering and Architecture TM is the course for you. The major focus of the course is a long-term project that involves the development of a local property site. As you learn about

various aspects of civil engineering and architecture, they will apply their learning to the design and development of this property. There is flexibility for student and teacher in developing the property as a simulation or as a real-world experience that civil engineers and architects experience when developing property. Students have the opportunity to test for university credit. *(Accelerated: Double Blocked for One Semester)*

Digital Electronics, 1 credit
Grade: 12
GPA Level: I
Prerequisite: Year 1 and 2 Engineering Courses
Partnerships: University of North Texas, Engineering Department
Year 3: Semester
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Digital Electronics is a course in applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices. Students will have the opportunity to test for university credit. *(Accelerated: Double Blocked for One Semester)*

Engineering Design and Development I, 1 credit
Grade: 12
GPA Level: I
Prerequisite: Year 1 and 2 PLTW Engineering Courses and Digital Electronics
Partnerships: University of North Texas, Engineering Department
Year 3: Semester 2
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

Engineering Design and Development™ (EDD) is the course that allows student to design a solution to a technical problem of his or her choosing. Now is the chance to eliminate one of the "Don't you hate it when..." statements of the world. This course is an engineering research course in which students will work in teams to research, design, and construct a solution to an open-ended engineering problem. Students will have the opportunity to test for university credit. (Accelerated: Double Blocked for One Semester)

Advanced Electronics (D022), 2 credits
Grade: 11-12
GPA Level: I
Prerequisite: recommended: Electronics
Partnerships: International Society of Certified Electronics Technicians (ISCET)
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

What is the difference between what comes out from the wall socket, and what comes out of that little "black box" you plug your cell phone into to charge it? What is an IC chip? What is an LED? What is a LASER? How do we make things so small, and yet they can do so much? What actually goes on inside a computer? Just what does "digital" mean anyway? These questions and many more are answered as your adventure into the world of electronics continues with a more detailed study of: Direct Current (DC), Alternating Current (AC), Semiconductor, and Digital theories.

Practicum in STEM – Electronics, 2 credits
Grade: 12
GPA Level: I
Prerequisite: Electronics
Partnership: Texas State Technical College
Course taught at the Advanced Technology Complex (ATC), see page 26 for details.

This course is a capstone experience in Electronics. The Practicum is designed to give students supervised practical electronics application through individual research.

Practicum in STEM - Biomedical Technology, 2 credits
Grade: 12
GPA Level: I
Prerequisite: Electronics
Partnership: Texas State Technical College
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

This course is a capstone experience in Electronics with an emphasis in Biomedical applications.. The Practicum is designed to give students supervised practical application through individual research in biomedical applications.

Transportation, Distribution & Logistics

Automotive Technology (D008), 2 credits
Grade: 11-12
GPA Level: I
Partnerships: National Automotive Technical Education Foundation
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

In Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis of motor vehicles. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The National Automotive Technician Education Foundation (NATEF) standards are the basis for the course curriculum. The primary goal of this course is to prepare students to successfully take the A.S.E. (Automotive Service excellence) certification exams for the A5 Braking Systems and A6 Automotive Electrical/ Electronic Systems. Students will also learn the safety procedures, uses, and care of major shop equipment and tools. Students will explore career and postsecondary opportunities as they relate to the automotive repair industry.

Advanced Automotive Technology, 3 credits
Grade: 12
GPA Level: I
Prerequisite: Auto Tech I and Instructor/Committee decision
Required Partnership: National Automotive Technical Education Foundation
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

In Advanced Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis of motor vehicles. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The National Automotive Technician Education Foundation (NATEF)

standards are the basis for the course curriculum. The primary goal of this course is to prepare students to successfully take the A.S.E. (Automotive Service Excellence) certification exams for A4 Suspension and Steering and A8 Engine Performance. Students will also learn the safety procedures, uses, and care of major shop equipment and tools. Students will explore career and postsecondary opportunities as they relate to the automotive repair industry.

Aircraft Technology (D004), 2 credits
Grade: 11-12
GPA Level: I
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

In Aircraft Technology, students gain knowledge and skills in the general repair, maintenance, and diagnosis of aircraft systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. Students will be introduced to the aviation industry, air traffic control system, ground operations, as well as weather considerations, reporting, and prediction. Students will also learn the safety procedures, uses, and care of major shop equipment and tools. Students will explore career and postsecondary opportunities as they relate to the aviation repair industry.

Advanced Aircraft Technology, 2 credits
Grade: 12
GPA Level: I
Prerequisite: Aircraft Technology
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

An Advanced Aircraft Technology, students gain knowledge and skills in the general repair, maintenance, and diagnosis of aircraft systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. Students will expand their knowledge of the aviation industry, air traffic control system, ground operations, as well as weather considerations, reporting, and prediction. Students will also learn engine start up, aircraft movement, and taxi procedures. Students will explore career and postsecondary opportunities as they relate to the aviation industry.

Logistics, Planning and Management Systems, 2 credits
Grade: 11-12
GPA Level: I
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

In Logistics, Planning, and Management Systems students will explore the business planning and management aspects of transportation, distribution, and logistics. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. Students will explore career and postsecondary opportunities as they relate to the transportation industry.

Practicum in Transportation, Distribution & Logistics, 2 credits
Grade 12
GPA Level: I
Course taught at the Advanced Technology Complex (ATC), see ATC section for requirements.

In Practicum in Transportation, Distribution, & Logistics-Air Traffic Control (ATC) / Dispatcher / Logistics students will learn how the air traffic control system works. They will study weather, weight and balance, radio navigation, flight planning, two way radio communications, and aircraft performance charts. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. Students will explore career and postsecondary opportunities as they relate to the aviation industry.

CTE Innovative Courses

Sports Medicine I (L816),
Grade: 10-12
Prerequisite: First Aid / CPR recommended, must complete application with sports trainer

In this course, students will learn the basics of anatomy, physiology, biomechanics, kinesiology, general nutrition, and basic athletic training procedures. Instructional materials and activities support attainment of National Safety Council, American Sports Medicine Association, and The National Athletic Trainers' Association industry standards. Lab sessions cover training-room operations, taping and wrapping, athletic injury assessment, advanced First Aid, use of heat and cold modalities, recordkeeping, rehabilitation, and time management skills. Also included are job shadow and internship opportunities. Extended hours are required per instructor's specifications.

Sports Medicine II (L818),
Grade: 11-12
Prerequisite: Sports Medicine I, must complete application with sports trainer

Skills in this course build on those attained in Sports Medicine 1-2. Students learn rehabilitation strategies, indications and contraindications of modalities, advanced nutrition, myology (muscle physiology), protocols, and others. A job shadow experience is an integral part of this course.

Sports Medicine III (L822),
Grade: 12
Prerequisite: Sports Medicine I and II, must complete application with sports trainer

Skills in this course build on those attained in Sports Medicine I and II. Students employ physiology and advanced anatomy and physiology concepts. A senior comprehensive project and extended job shadow in a medical field of choice are required. Student leadership activities involve third-year students in all aspects of the sports medicine and athletic training program.

Local Credits

Local credits are offered to students but do not count in a student's GPA and credit is <u>not</u> awarded for local credit classes.

Academic Support (L807)
Grade:9-12
GPA Level: does not count in GPA

Students who need additional time and support during the school day to complete class assignments, homework and study for tests may be scheduled into an academic support by their counselor.

Office Aide/Library Aide (L815)
Grade: 12
GPA Level: does not count in GPA

Students can apply to be an office aide or library aide in the preceding spring semester, only students who have completed an application will be considered. Students who are chosen will be scheduled into an office aide or library aide period by their counselor.

Off Period (L825, 7th pd., L826, 8th pd.)
Grade:12
GPA Level: does not count in GPA

Seniors can request off periods 7th and/or 8th pd. Students may have a maximum of two off periods in per semester. Students must be in good standing academically and behaviorally to receive and maintain off periods.

Terms & Definitions

ACT – The ACT is a national college admissions examination that consists of subject area tests in: English, mathematics, reading and science *(optional ACT Plus Writing).*

AP (Advanced Placement) - AP courses are college-level courses with support of the high school environment. With qualifying AP exam scores, students may earn credit from a large majority of colleges and universities.

ATC (Advanced Technology Complex) - The ATC provides students of Denton County with career and technical educational opportunities. We have over 30 pathways designed to help students enter the workforce and/or prepare them for their future education at college. The instructors are passionate and dedicated to providing students with a hands-on experience that will lead them to nationally recognized credentials and certifications.

Career Cluster - Career clusters are groups of similar occupations and industries. They were developed as a way to organize career planning.

College 4.0 GPA - Unweighted grade point average using the following system (A=4.0, B=3.0, C=2.0).

CTE (Career Technology Education) - Career and technical education programs offer a sequence of courses that provides students with coherent and rigorous content. CTE content is aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in current or emerging professions.

Cumulative GPA – Weighted grade point average using Krum ISD's grading scale.

Dual Credit – Dual Credit allows a high school junior or senior student to enroll in a community college and earn college level credit, while at the same time fulfilling high school academic requirements.

Endorsement - Related series of courses that are grouped together by interest or skill set. They provide students with in-depth knowledge of a subject area.

EOC *(End-of-Course)* – STAAR assessments at the high school level in the following subject areas: English I, English II, Algebra I, biology and U.S history

GPA *(Grade Point Average)* - All grades from classes averaged to create a **grade point average**.

LOTE *(Languages Other Than English)* – Foreign language courses, such as Spanish.

NCTC *(North Central Texas College)* - The North Central Texas College Community College is a community college that partners with Krum ISD to provide dual credit course for students.

PGP *(Projected Graduation Plan)* - The personal graduation plan is a working document used by counselors to track student completion of graduation requirements.

Pre AP *(Pre Advanced Placement)* – Courses taught to challenge and prepare students for the rigors of AP and dual credit courses.

Prerequisite - A course or topic that must be completed before another course or topic can be started. For example, Algebra is typically a prerequisite for geometry.

PSAT – The PSAT/NMSQT assesses reading, math, and writing skills; provides excellent practice for the SAT; and connects students to scholarships and personalized online tools.

SAT – The SAT is a national college admissions examination that consists of subject area tests in: reading, writing and mathematics.

STAAR *(State of Texas Assessments of Academic Readiness)* - The STAAR program includes annual assessments for: Reading and mathematics, grades 3–8 , Writing at grades 4 and 7, Science at grades 5 and 8, Social studies at grade 8, and End-of-course assessments for English I, English II, Algebra I, biology and U.S history.

STEM *(Science, Technology, Engineering & Mathematics)* - STEM is an acronym referring to the academic disciplines of science, technology, engineering, and mathematics.

Transcript - An official record of a student's work, showing courses taken and grades achieved.