



# NEWTON HIGH SCHOOL



COURSE GUIDE  
2025-2026

USD 373

# Table of Contents

---

<u>Profile of a Newton High Graduate</u> .....	3
<u>Class of 2026 &amp; 2027 Graduation Requirements</u> .....	4
<u>Class of 2028 &amp; Beyond Graduation Requirements</u> .....	5
<u>Academic Recognition Programs</u> .....	7
<u>Kansas Scholars Curriculum</u> .....	8
<u>Seal of Biliteracy</u> .....	10
<u>Cum Laude Recognition &amp; Weighted Grades</u> .....	11
<u>About Career Fields and Pathways</u> .....	12
<u>Pathways: Frequently Asked Questions</u> .....	13
<u>Endorsements &amp; Certificates</u> .....	14
<u>Special Education Information</u> .....	15
<b><u>Course Guide Table of Contents</u></b> .....	<b>17</b>
• <u>By Department</u> .....	18
• <u>By Pathway</u> .....	78
• <u>By Academy</u> .....	117
• <u>Computer Based Learning (CBL) Course Guide</u> .....	120
<b>Appendices Table of Contents</b> .....	<b>135</b>
• <u>Repeatable Course List</u> .....	127
• <u>Community Resources</u> .....	128
• <u>Athletic Eligibility Requirements</u> .....	129
• <u>Counselor Forms</u> .....	130

## **USD 373 Mission**

*The mission of the Newton School Community is to prepare and empower our students to be contributing participants in a changing world.*

## **Newton High School Mission**

*The mission of the NHS community is to prepare our students to be productive citizens in a career or college setting.*

# Welcome to Students and Parents

The purpose of this guide is to assist students and parents in planning a course of study tailored to individual student needs, interests, and aspirations. After an introductory section on general requirements, grades, academic placement, and student classification, the program of studies provides a brief description of the prerequisites and content of the courses Newton High School offers. These descriptions should be consulted in selecting courses for next year. Students and parents with questions regarding courses and the implications of selecting them are encouraged to consult with school counselors or their seminar teacher. Information in this guide is accurate as of date of printing and subject to change at any time due to updates in local, state, and federal policies. Please refer to the online version of this guide for the most up-to-date information.

## Students and Parents: Review the state and local course requirements included in the guide along with the USD 373 BOE Graduation Requirements.

- Consider your post-secondary education plans and career interests. Decide which college or other post-secondary institutions you might attend.
- Review the core course and elective offerings.
- Complete the course selection process as directed by your school counselor and/or seminar advisor.

Availability of courses listed in the program guide depends on student requests, staffing and other resources. Some courses may not be available on all campuses in a face-to-face traditional format. Other formats (online learning or distance learning) may be utilized to provide a course to meet student requests within district procedures.

# A Newton High School Graduate has a rigorous academic foundation, strong character, and is...



**equipped with skills for life.** Newton High School graduates exhibit grit and determination in all aspects of life; respect self and others; engage in healthy life choices; are literate and articulate; proficient with technology; and meaningfully and practically apply knowledge in productive ways.



**a servant leader.** Newton High School graduates demonstrate confidence while maintaining a humble and kind demeanor; prioritizing the needs of others while accepting responsibility for themselves and are accountable for their own actions; are optimistic; and strive to bring out the best in others.



**an effective communicator.** Newton High School graduates communicate clearly both orally and in writing; respectfully and actively listen to others; appropriately engage in courageous conversations; and appropriately adapt their communication style to the audience



**a critical thinker.** Newton High School graduates are visionary and solutions-oriented problem solvers; are inquisitive and innovative; and have the courage to actively challenge conventional methods in order to improve themselves and the world around them.



**a compassionate citizen.** Newton High School graduates are empathetic to their fellow citizens, exhibiting care and concern for others; are inclusive and embrace differences; are culturally aware; actively engage in improving our diverse community; exercise their right to vote; and are dependable, respectful, trustworthy, and self-disciplined.



**a collaborative team member.** Newton High School graduates work effectively with others to achieve group goals; take actions that respect the needs and contributions of others; yield their own objectives to the goals of the team; and positively facilitate and contribute to teamwork.



**a life-long learner.** Newton High School graduates approach life with wonder and curiosity; seek opportunities to be creative; possess a thirst for knowledge and the ability to adapt to change; and are academically prepared to pursue and attain futures beyond what they can imagine!

## Graduation Requirements (Class of 2026 & 2027)

Students must earn 26 credits total as well as specific credits by academic area in order to graduate. (see table below)

Each successfully completed course counts as .5 (one-half) credit per semester (Aug-Dec or Jan-May). Students enroll in a course each period each semester and may earn 8.25 credits in an academic year. Additional options include college courses.

Twenty-six (26) total credits are required for a standard NHS diploma with specific requirements listed below by subject area:

<b>Subject</b>	<b>Minimum Credits</b>
English Language Arts	4.0
Mathematics	3.0
Science	3.0
Social Studies	3.0
Speech/Communication	0.5
Physical Education	1.0
Fine Arts	1.0
Financial Management	0.5
Electives	10.0
<b>Minimum credits for graduation</b>	<b>26.0</b>

<b>Fine Arts Credits</b>		
<b>All art courses</b>	<b>All instrumental music courses</b>	<b>All vocal music courses</b>
<b>All world language courses</b>	<b>Drama I</b>	<b>Drama II</b>
<b>Technical Theater</b>	<b>Speech</b>	<b>Novice Debate</b>
<b>Culinary Arts I</b>	<b>Forensics</b>	<b>Interior Design</b>
<b>Honors Debate</b>	<b>Woodworking I or II</b>	<b>Engineering Design</b>
<b>Fashion Studio I, II, or III</b>	<b>Principles of Engineering</b>	<b>Auto Restoration</b>
<b>Pre-Vocational Welding</b>	<b>Welding Technology I</b>	<b>Precision Machining</b>
<b>Introduction to Journalism</b>		

## Graduation Requirements (Class of 2028 & Beyond)

Students must earn 26 credits total as well as specific credits by academic area in order to graduate. (see table below)

Each successfully completed course counts as .5 (one-half) credit per semester (Aug-Dec or Jan-May). Students enroll in a course each period each semester and may earn 8.25 credits in an academic year. Additional options include college courses.

Twenty-six (26) total credits are required for a standard NHS diploma with specific requirements listed below by subject area:

<b>Subject</b>	<b>Minimum Credits</b>
English Language Arts	3.5
Mathematics	3.0
Science	3.0
Social Studies	3.0
Fine Arts	1.0
Financial Management	0.5
Physical Education	1.0
Speech/Communication	0.5
STEM	1.0
Electives	9.5
Postsecondary Asset List	Required
<b>Minimum credits for graduation</b>	<b>26.0</b>

<b>Fine Arts Credits</b>		
<b>All art courses</b>	<b>All instrumental music courses</b>	<b>All vocal music courses</b>
<b>All world language courses</b>	<b>Drama I</b>	<b>Drama II</b>
<b>Technical Theater</b>	<b>Speech</b>	<b>Novice Debate</b>
<b>Culinary Arts I</b>	<b>Forensics</b>	<b>Interior Design</b>
<b>Honors Debate</b>	<b>Woodworking I or II</b>	<b>Engineering Design</b>
<b>Fashion Studio I, II, or III</b>	<b>Principles of Engineering</b>	<b>Auto Restoration</b>
<b>Pre-Vocational Welding</b>	<b>Welding Technology I</b>	<b>Precision Machining</b>
<b>Introduction to Journalism</b>		

# STEM & Post Secondary Graduation Requirements

## Class of 2028 & Beyond

<b>STEM Requirements</b>		
<i>1cr. Required</i>		
<u>Advanced Math</u>	<u>Advanced Science</u>	<u>Robotics</u>
Transition to College Alg	Anatomy and Physiology	Robotics
College Alg (.5)	Biotechnology in Medicine	
Data Science	Human Body Systems	
AP Pre Calculus	Physics	
AP Calculus	Honors Physics	
AP Calculus 2	AP Biology	
AP Stats	AP Chemistry	
<u>Advanced CTE</u>		
Accounting 2	CMA	General Internship
Advanced Ag Mechanics	CNA	Health Science Workplace Experience
Ag Internship	Construction Workplace Experience	Horticulture 2
Ag Power	Digital Media Design Production	Investing
AgriBusiness	Drones	Network Systems Workplace Experience
Animal Science/Vet Tech	EMT	Network systems/Router Basics
Auto 2	Engineering Design and Development	Precision Machining and CNC
Automotive internship (Research and Emerging trends in transportation)	Engineering Workplace Experience	Small Business Management
CAM	Equine Science	Teaching Internship
Career Connections	Finance Workplace Experience	Welding Technology 2
Civil Engineering and Architecture	Fire Science	Woodworking 2

<b>Post Secondary Assets</b>		
<i>2cr. Required</i>		
2 or more high school athletics / activities	ASVAB	Senior projects
4 H Key Award	CTE Scholar	Sr Exit Interview (senior portfolio)
9+ college hours	Eagle Scout / Gold Scout	State Assessment scores of 3 or 4 ELA, Math or Science
90% attd in high school	Industry recognized certifications	State Scholar Curriculum
ACT composite of 21	SALT / STUCO / club officer	Work Keys - Silver or higher
AP exam 3+	SAT - 1200 or better	Workplace learning directly related to IPS
Apply and interview for a job	Seal of Biltieracy	Youth Centered Apprenticeship .5-1

# Academic Recognition Programs

---



## ACADEMIC LETTERING

To receive an academic letter, students must have a GPA of 3.5-4.0 when averaging the semester grades. Awards are handed out in the fall for the previous year, and again in the spring for seniors, averaging the three quarters of their senior year.

Gold Bar 3.9+

Silver Bar 3.7-3.89

Bronze 3.5-3.69

## NATIONAL HONOR SOCIETY

Membership in the National Honor Society is based upon excellence in the areas of scholarship, leadership, service, and character. Each category is considered independently. National Honor Society is a service organization. Members are required to complete a minimum of service hours each semester. Members will be asked throughout the year to volunteer at school and community events.

All students applying for NHS must maintain an unweighted 3.5 cumulative GPA. You also must be on track to graduate *magna according to the cum laude system* **or** be on track to complete the Kansas Scholars Curriculum.

In addition to the academic criteria, letters of recommendation in support of the candidate and proof of leadership and participation in school and community activities is required as part of the application process. The application cycle takes place at the start of second semester and if you are eligible you will receive an invitation to apply. To learn more about the organization or the application process please visit the Newton National Honor Society Website: <https://sites.google.com/usd373.org/nationalhonorsociety-newtonhs/prospective-members>



# KANSAS SCHOLARS CURRICULUM

Students that complete this curriculum and meet the other requirements, may be designated as State Scholars, which makes one eligible to receive the Kansas State Scholarship as provided by the Kansas Legislature. The academic profile of recent scholars include an average ACT of 30 and an average GPA of 3.91. State Scholars may receive up to \$1,000 annually for up to four undergraduate years (five, if enrolled in a designated five-year program), based on financial need and the availability of State funds. Financial need is measured by federal methodology using data submitted on the FAFSA.

- Students must have taken the ACT between April of the sophomore year and December of the senior year.
- Students must be a Kansas resident.

## **English** - 4 years

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

## **Science** - 3 years

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

## **Mathematics** - 4 years

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

## **Social Studies** - 3 years

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

## **World Language** - 2 years

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

## **NCAA & NAIA Clearinghouse Information**

<https://play.mynaia.org/>

<https://web3.ncaa.org/ecwr3/>





# Systemwide General Education Framework

## Systemwide General Education Framework

The systemwide GE program framework is below and is comprised of 34-35 credit hours organized in six discipline-based “buckets” and an institutionally designated bucket. A student who satisfies all seven buckets will complete the systemwide GE program.

### Bucket #1: English Discipline Area



6 Hours of English Courses

### Bucket #2: Communications Discipline Area



3 Hours of Communications Courses

### Bucket #3: Mathematics & Statistics Discipline Area



3 Hours of Math or Statistics Courses  
These will be defined with the math pathways work

### Bucket # 4: Natural & Physical Sciences Discipline Area



4-5 Hours from One Subject (must include a lab)

Anatomy  
Astronomy  
Biochemistry  
Biology  
Botany  
Chemistry  
Earth Science  
Ecology  
Environmental Science  
Geology  
Meteorology  
Microbiology  
Physical Geography  
Physical Sciences  
Physics  
Physiology  
Zoology  
Other subjects that the offering institution determines fit within the natural and physical sciences area

### Bucket #5: Social & Behavioral Sciences Discipline Area



6 Hours in at Least Two Courses from Two Subject Areas

Anthropology  
Criminal Justice  
Economics  
Ethnic and/or Gender Studies  
Geography  
Political Science  
Psychology  
Social Work  
Sociology  
Other subjects that the offering institution determines fit within the social sciences area

### Bucket # 6: Arts and Humanities Discipline Area



6 Hours in at Least Two Courses from Two Subject Areas

Art \*  
Communications  
Cultural Studies  
Dance\*  
English  
General Humanities  
History  
Literature  
Modern and Classical Languages  
Music\*  
Philosophy  
Religion  
Theater\*  
Other subjects that the offering institution determines fit within the arts and humanities  
\*The application of performance courses in this subject area is at the discretion of the institution.

### Bucket #7: Institutionally Designated Area



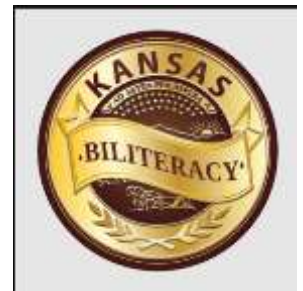
6 Hours Determined by the Institution.

This area provides flexibility for each institution to define requirements to account for societal issues, local needs, and institutional priorities (Intermediate Algebra shall not be applied toward meeting this area).

Last Updated October 2022

## Seal of Biliteracy

The Seal of Biliteracy is a recognition for high school graduates who have attained intermediate and advanced proficiencies in English and one or more additional language(s).



The Kansas Seal of Biliteracy will be awarded by the Kansas State Department of Education (KSDE) and a local school district to recognize each student who has attained proficiency in English and one or more other world languages by the time of graduation. It is a statement of accomplishment that recognizes a student's readiness for career and college, and for engagement as a global citizen. Kansas has adopted a two-tier Seal of Biliteracy, awarding a Kansas Silver Seal of Biliteracy and a Kansas Gold Seal of Biliteracy based on language proficiency levels. Some student assessment scores can be "banked" from earlier high school grades. World language assessments can be taken and retaken in the junior and senior years. Proof of proficiency in English- All students must provide comparable evidence from one of the Kansas validated assessments of English language proficiency, AND be on track to graduate. Please visit this website for more information: <https://www.ksde.org/Agency/Division-of-Learning-Services/Career-Standards-and-Assessment-Services/Content-Area-M-Z/World-Languages/Seal-of-Biliteracy>

For a list of all validated assessments, see your World Language Department instructors.

## NHS Cum Laude Academic Honors

Graduating seniors will be recognized for academic honors and recognition at graduation based on completion of challenging courses taken throughout their high school career. The “NHS Cum Laude system” requirements are listed below:



### CUM LAUDE REQUIREMENTS for the classes of

2026 and beyond

REQUIREMENT	CUM LAUDE	MAGNA	SUMMA
GPA	3.7	3.8	3.9
HONORS classes	4	5	6
AP classes	None	None	1

# About Career Fields and Pathways

Offering a robust selection of 16 different pathways, Newton High School (NHS) is equipped to support our students with their post-secondary goals through its career and technical education program (CTE). It is our vision to equip today's student for tomorrow's opportunities.

There are also many dual credit courses and possible certificates to earn as well. Since 1992, Newton High School and Hutch CC have partnered together to offer both high school and college credit in certain courses. This not only saves time and money, but helps students be best prepared for the workforce, tech school, and/or college.

During your tenure at NHS, we encourage you to use Naviance data, Individual Plan of Study (IPS) assignments in seminar, and meeting with your counselor to develop a four year plan that matches your interests and post-secondary goals.

## Career Fields:

- Agriculture
- Business
- Family & Consumer Sciences
- Public Service
- Media & Technology
- Health
- Design, Production & Repair



Each career field has a variety of pathways that students may take courses in.

## **NHS CTE Pathways:**

### **Agriculture**

- Animal Science
- Comprehensive Ag Science
- Plant Systems
- Power, Structural & Technical Systems

### **Business**

- Business Finance
- Marketing

### **Family & Consumer Science**

- Family, Community & Consumer Services
- Restaurant & Event Management

### **Public Service**

- Teaching & Training

### **Media & Technology**

- AV Communications
- Network Systems

### **Health**

- Health Science

### **Design, Production & Repair**

- Construction & Design
- Engineering
- Manufacturing
  - Machining
  - Welding
- Mobile Equipment Maintenance

# Pathways: Frequently Asked Questions

---

## What is Career and Technical Education (CTE)?

For several decades, Career and Technical Education (CTE) has been evolving. No longer offering only traditional vocational education, CTE now offers a diverse range of subjects and career fields, including a number of science, technology, engineering, and mathematics (STEM) subjects. In addition, the distinction between CTE and academic programs is slowly disintegrating as integrating academic content into CTE has become a national education priority. CTE has become an indispensable lever for improving students' college and career readiness. ([KSDE](#))

## What is a pathway?

A CTE pathway is an organized, coherent sequence of academic and workplace skills courses that support a student's post-secondary goals in a particular field.

## Can I change pathways?

Absolutely! High school is an excellent time to explore different career pathways that align with your interests. Taking courses in another pathway is as simple as selecting different courses during the enrollment window.



## What is dual credit?

Dual credit courses in high school allow students to earn high school and college credit at the same time.

Through Excel in CTE funding there are also opportunities to receive college credit at no cost to students!

## Why take CTE courses?

- Explore career-based courses that align with your interests.
- Earn industry recognized credentials and certification in certain pathways.
- Develop a viable skill or trade.
- Obtain practical experiences that will prepare you for the workplace, tech school, and/or college.
- Attain dual-credit at no additional cost.
- Gain real-world experience through job shadows and internships.
- And much more!

# Endorsements & Certificates

---

## **Agriculture**

- cPass—Comprehensive Ag

## **CNA/Health Science IV**

- CNA Certificate

## **Emergency Medical Technician (EMT)**

- EMT Certificate

## **Manufacturing**

- Machining— NIMS and Certificate B (Hutch CC)
- Welding— AWS and Certificate B (Hutch CC)

## **Mobile Equipment Maintenance (Auto)**

- ASE Certificate
- Certificate A (Hutch CC)

## **Networking**

- CISCO

## **Restaurant & Event Management**

- Serve Safe—Food Handlers

# Special Education Graduation Requirements

---

From the Kansas Special Education Processing Handbook: Chapter 8 - Discontinuing Special Education Services

(updated 10/01/2020)

## B. GRADUATION

All students receiving special education services will receive a regular high school diploma at the completion of their secondary program if they meet graduation requirements of the state and school district. IEP teams do not have the authority to reward credits or issue diplomas under special education laws and regulations unless a school district has delegated such decisions to the IEP team in writing. A regular high school diploma does not include an alternative diploma that is not fully aligned with the State's academic standards, such as a certificate or GED (Federal Register, August 14, 2006, p. 46580). A modified or differentiated diploma or certificate may be used for students receiving special education services; however, such diplomas or certificates do not end eligibility for special education services.

When the student enters high school, progress toward graduation must be monitored annually and recorded on an official transcript of credits. If the student has completed the required courses for graduation, but the IEP team determines the student still needs additional special education and related services to meet IEP goals, graduation would be delayed and the student can continue to receive the needed special education services of the IEP through the school year in which the student turns 21. The district's obligation to provide special education services ends (a) when the student meets graduation requirements and receives a regular high school diploma; (b) at the end of the school year in which the child reaches age 21; or © an evaluation shows that the child is no longer eligible for special education services (K.A.R. 91-40-2(f)).

Students with exceptionalities who meet graduation criteria must be afforded the same opportunity to participate in graduation ceremonies as students without exceptionalities, even if the IEP team determines that services will continue after the student has met all of the required credits (but an official diploma has not been rewarded). A student may require services through age 21 to meet IEP goals, or because he or she has not obtained all required credits for graduation. In either case, the student may be allowed to participate in graduation ceremonies with the student's classmates. Schools may have a policy regarding participation in graduation ceremonies; but it must apply equally to all students in the district, not just for students with exceptionalities.

No reevaluation is required to prior exiting a student due to graduation (K.S.A 72-3428(l)(2); 34 C.F.R 300.305(e)(2)). However, before the student completes the last semester of high school in which the student is expected to graduate, the district must provide the student (if over age 18) and the parents with Prior Written Notice of the discontinuation of services at the end of the school year. The Prior Written Notice will clearly state that the student will no longer be entitled to receive special education services from the district after graduation. Parental consent for discontinuing services is not required when a child graduates with a regular diploma (K.A.R. 91-40-27(a)(3); 34 C.F.R 300.102(a)(3)(iii)).

Letter to Runkel, 25 IDELR 387, is a letter from the federal Office of Civil Rights (OCR) that provides additional guidance about criteria for grading, graduation, and diplomas for students with disabilities.

---

**K.S.A 72-3428. Initial evaluation of children prior to provision of services; parental consent; reevaluation; notice; procedure; duties of IEP team; child no longer eligible for services, duties.**

(l) (2) An evaluation of a child shall not be required before termination of a child's eligibility for services under this act due to graduation from secondary school with a regular diploma, or due to exceeding the age of eligibility for services under this act.

**K.A.R. 91-40-2. FAPE.**

(f) (1) An agency shall not be required to provide FAPE to any exceptional child who has graduated from high school with a regular diploma.

(2) Each exceptional child shall be eligible for graduation from high school upon successful completion of state and local board requirements and shall receive the same graduation recognition and diploma that a non-exceptional child receives.

3) The IEP of an exceptional child may designate goals other than high school graduation.

(4) When an exceptional child enters high school, progress toward graduation shall be monitored annually and recorded and recorded on an

# Special Education Graduation Requirements (cont.)

---

From the Kansas Special Education Processing Handbook: Chapter 8 - Discontinuing Special Education Services

(updated 10/01/2020)

## C. SERVICES THROUGH AGE 21

The district must make a free appropriate public education (FAPE) available to any student who has not graduated with a regular high school diploma until the end of the school year in which the student turns 21 (the school year ends on June 30). The IEP team may determine that the student needs extended school services, which would be available through June 30 of the school year in which the student turns 21. The school must provide the student age 18 and over, and the parents with Prior Written Notice that the services will be discontinued at the end of the school year, however parental consent is not required. A reevaluation is also not required when a student graduates or ages out of eligibility of services upon turning age 21 (K.S.A 72-986(l)(2); (K.A.R. 91-40-10(s)(2); (K.A.R. 91-40-27(a)(3); 34 C.F.R. 300.305(e)(2).

---

34 C.F.R. 300.101. Free appropriate public education (FAPE).

1. General. A free appropriate public education must be available to all children residing in the state between the ages of 3 and 21, inclusive, including children with disabilities who have been suspended or expelled from school as provided for 300.530(d).
2. K.S.A 72-3428. Initial evaluation of children prior to provision of services; parental consent, reevaluation, notice, procedure, duties of IEP team; child no longer eligible for services, duties.

(l) (1) Except as provided in paragraph (2), an agency shall reevaluate a child in accordance with the section before determining that the child is no longer an exceptional child.

(2) A reevaluation of a child shall not be required before termination of a child's eligibility for services under this act due to graduation from secondary school with a regular diploma. Or due to exceeding the age of eligibility for services under this act.

## Additional Common Questions:

1. What is required when the student graduates from high school?

The school must provide the parents, and the student, if age 18, with Prior Written Notice of exiting special education. The Prior Written Notice will clearly state that the student will no longer be entitled to receive special education services from the district after graduation. Informed parent or adult student consent is not required. Additionally, the school must provide the student with a Summary of Performance.

2. May a student participate in graduation exercises with his or her classmates, if the student is not actually graduating?

Yes, the student may participate in graduation exercises unless a local policy would not allow it. However, if there is such a policy, it must apply to all students and not just students receiving special education services. Some students may require services until age 21 to meet IEP goals, which should be addressed within the student's transition plan. The student could participate in graduation exercises with the student's class, but not actually receive a diploma at that time.



# COURSE GUIDE NAVIGATION

---

## By Department

<u>Business/FACS/Journalism</u> .....	19
<u>English Language Arts</u> .....	25
<u>Fine Arts</u> .....	30
<u>Mathematics</u> .....	36
<u>Physical Education</u> .....	39
<u>Science</u> .....	41
<u>Social Studies</u> .....	46
<u>Special Education</u> .....	51
<u>Industrial CTE</u> .....	56
<u>World Languages</u> .....	66
<u>Electives/Special Programs</u> .....	70

## By Pathway

<u>Agriculture</u> .....	79
<u>Audio/Video Communication</u> .....	83
<u>Automotive Technology</u> .....	86
<u>Business Finance</u> .....	89
<u>Construction &amp; Design</u> .....	92
<u>Engineering</u> .....	94
<u>Family, Community &amp; Consumer Sciences (FACS)</u> .....	97
<u>Health Science</u> .....	99
<u>Information Technology</u> .....	103
<u>Manufacturing—Machining</u> .....	105
<u>Manufacturing—Welding</u> .....	107
<u>Marketing</u> .....	109
<u>Teaching &amp; Training</u> .....	112
<u>Restaurant &amp; Event Management</u> .....	114

## By Special Program

<u>Agriculture Academy</u> .....	118
<u>Health Science Academy</u> .....	119



## **BUSINESS/FACS/JOURNALISM**

---

College or career bound? Looking to expand your knowledge in your favorite hobby? Or just need to learn to cook more than ramen noodles? Then courses in the Business/FACS/Journalism pathways are the place for you.

On top of gaining excellent classroom experiences that you can find no where else, you can also receive free dual-credit for some courses and sign up for job shadows or internships aligned with your career interests!

### **Pathways**

Audio/Video Communication
Business Finance
Information Technology
Marketing
Family, Community & Consumer Science
Restaurant & Event Management
Teaching & Training

# BUSINESS

## Accounting 1

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 5033, 5034
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Business Essentials
- ⇒ **Pathway:** Business Finance
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** BPA

**Description:** This course teaches the fundamental accounting cycles for two types of businesses. The student learns how to operate a service business and the second business that students learn is the organization of a merchandising business as a partnership such as a sporting goods store or an auto parts store. Other topics included are careers, checking accounts, small business management, and payroll records. Students receive college credit through Hutch CC.

## Advanced Accounting II

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 5047, 5048
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Accounting 1
- ⇒ **Pathway:** Business Finance
- ⇒ **Course Fees:** \$130
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** BPA

**Description:** Advanced Accounting II continues to expand upon the fundamental accounting principles and procedures learned in Accounting I. A greater concentration is placed upon corporate and managerial accounting procedures. This course continues its emphasis on planning and developing a career in accounting or other related fields. Students receive college credit for Financial Accounting through Flint Hills Technical College.

## Agribusiness

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8123, 8124
- ⇒ **Grade Levels:** 11
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Comprehensive Agriculture Science, Animal Science, Plant Systems, Power, Structural and Tech Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA & BPA

**Description:** The Agribusiness course is part of the Ag Academy curriculum. It introduces the fundamental concepts of agriculture business within the framework of how the agriculture industry operates in an economy. It focuses on the basic principles and concepts that agricultural businesses and markets encounter. The course provides an overview of the economic theories associated with the production, consumption, and marketing of agricultural products.

## Business Essentials

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 50301
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Business Finance & Marketing, AV Communications, Restaurant & Event Management, Mobile Equipment Maintenance
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** BPA

**Description:** This introductory course is designed to give students an overview of the business field but also how business is involved in everyday life and all careers. Students will examine current events to determine their impact on business and industry and legal and ethical issues. Students will identify employability and personal skills needed to obtain a career and be successful in the workplace. As students learn about different types of businesses, they will analyze business practices to determine ethical and social responsibilities.

## Business Law

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 80201
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Business Finance & Marketing
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** BPA

**Description:** This course concentrates on sources of law, types of law, the judicial system, legal rights and responsibilities. Topics include criminal, civil, contracts, consumer, property, agency, employment, family and environmental law. Real-life cases will be integrated within the class.

## Computer Applications I

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 50101
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Network Systems, AV Communications
- ⇒ **Course Fees:** : None
- ⇒ **Dual Credit Available:**
- ⇒ **Clubs:** BPA & E-Sports

**\*Description:** This class will consist of computer concepts, word processing, spreadsheet, and presentation skills. Students will have the opportunity to test for MOS Certification.

## BUSINESS (Continued)

### Entrepreneurship/YEK

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 8061
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Business Essentials
- ⇒ **Pathway:** Business Finance & Marketing
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** BPA

**Description:** Entrepreneurship will teach the skills and approaches to successfully evaluate and create new business opportunities. Emphasis is placed on projects and student-led learning. Students will engage in team building and collaborative activities.

### Financial Management I

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 80101
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Business Finance
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** n/a

*\*Graduation Requirement*

**Description:** This course provides students with knowledge and insight to help them make wise choices regarding personal money management. Topics covered will include the economic systems and cycles as they impact consumers. Primary units within the course will also focus on credit use and abuse, budgeting, banking, saving and insurance. An introduction to investing will also be included.

### E-Sports & Gaming Concepts

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 50705, 50706
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** IT Essentials or Computer Applications
- ⇒ **Pathway:** Web and Digital Communications
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** E-Sports

**Description:** Game technologies represent the culmination of logic, sequence, tool utilization, and extension of skill. Programming process for this course will utilize all previously learned factors of programming logic, artistry, and interactivity. Project-based course allows students to view and create digital media through an E-Sports lens.

### Investing

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 80111
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Fin. Mgt. 1
- ⇒ **Pathway:** Business Finance
- ⇒ **Course Fees:**
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** n/a

**Description:** This course emphasizes the formulation of business and individual investment decisions by comparing and contrasting the investment qualities of cash, stocks, bonds and mutual funds. Students will review annual reports, predict growth rates and analyze trends. Stock market simulations will be incorporated into this course.

### Business Communications

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 80311
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** None

**Description:** This class will help students develop an understanding for effective communications in business situations and environments. Emphasis is placed on all phases of communication. Membership in BPA is required. Attendance at Regional and State conferences is also required.

### IT Essentials

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 51381, 51382
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Network Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** E-Sports & BPA

**Description:** IT Essentials Basics is a technical level course in the Network Systems pathway. It is designed to provide students with in-depth exposure to computer hardware and operating systems. Course topics include the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Students will learn to assemble and configure a computer, install operating systems and software, and troubleshoot problems. This class will also teach students the skills needed to modify and build computer to meet their interests, such as gaming and video production.

### Marketing

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 80391, 80392
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Business Essentials
- ⇒ **Pathway:** Marketing & Restaurant & Event Management
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** BPA

**Description:** Students learn about the expanding field of marketing, marketing careers, promotion, ethics, and product development. Students will learn about delivering value in satisfying customer needs and wants, determine target markets, and decide upon appropriate products, services, and programs to serve these markets. Topics include branding and product development, pricing strategies, marketing research, promotion, supply chain management and service marketing.

## BUSINESS (Continued)

### Networking Systems

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 51383, 51384
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** IT Essentials
- ⇒ **Pathway:** Network Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** E-Sports & BPA

**Description:** Networking Systems is a technical level course in the Network Systems pathway. It is designed to provide students with the opportunity to understand and work with hubs, switches, and routers. Students develop an understanding of LAN (local area network), WAN (wide area network), wireless connectivity, and Internet-based communications with a strong emphasis on network function, design, and installation practices. Students acquire skills in the design, installation, maintenance and management of network systems that may help them obtain network certification.

### Router Basics

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 51385, 51386
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** IT Essentials & Networking Systems
- ⇒ **Pathway:** Network Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** E-Sports & BPA

**Description:** This is a technical level course in the Network Systems pathway. Students learn about router components, start-up, and configuration using CISCO routers, switches, and the IOS. These courses also cover TCP/IP protocol, IP addressing, subnet masks, and network troubleshooting.

### Small Business Management

---

- ⇒ **Credit:** 2.0
- ⇒ **Course Number(s):** 8075, 8076, 8077, 8078 (Double Block)
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Business Essentials & Teacher Signature Required
- ⇒ **Pathway:** Marketing
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** n/a

**Description:** This course covers similar topics as Marketing-Comprehensive courses but places a particular emphasis on business management and entrepreneurship, providing exposure to common techniques and problems of management. Students will participate in interactive instruction and will develop communication, research and problem solving skills as they relate to business. Learning is focused on applied entrepreneurial opportunities and careers as well as all aspects of the operation/management of small businesses. The format of this class promotes a strong community link and students will spend time working directly with community mentors. Additionally, students will actively participate in the operation of an in-school business.

### Web Page Design

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 50703
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Marketing
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** E-Sports & BPA

**Description:** Web Page Design teaches students how to design web sites by introducing them to and refining their knowledge of site planning, page layout, graphic design, and the use of markup languages—such as Extensible Hypertext

Markup, JavaScript, Dynamic HTML, and Document Object Model—to develop and maintain a web page. This course may also cover security and privacy issues, copyright infringement, trademarks, and other legal issues relating to the use of the Internet. Advanced topics may include the use of forms and scripts for database access, transfer methods, and networking fundamentals.

### Networking Systems

#### Work Experience

---

- ⇒ **Credit:** 0.5/1.0
- ⇒ **Course Number(s):** 51387, 51388
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** See Description.
- ⇒ **Pathway:** Network Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Prerequisite: Application, Teacher approval and interview. Students must complete IT Hardware Basics to be considered for selection. Optional concurrent enrollment in Networking Systems and Router Basics is available. Network Tech Support is an application level course in the Network Systems Pathway. It is designed to provide students a learning environment where they complete tasks similar to those of a network support specialist. The course incorporates rigorous academic and technical standards along with critical workplace skills such as problem solving, communications and teamwork. (Repeatable or credit).

**State Course Description:** Students acquire personalized learning representing explicit objectives measured against specific target employment skills that are not available in other courses. The personalization of learning will be based on a particular work environment, workplace experience and/or the essential skills addressed from previous coursework.

## FACS/CULINARY

### Baking & Pastry

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 84509
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Restaurant & Event Mgt.
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This course is designed to give a thorough overview to the baking and pastry portion of the overall restaurant and event management pathway. This class provides students with an understanding of the ingredients and methods used in creating breads, pastries, cookies and other desserts. Students learn how dairy, fruits, flour and chocolate come into play with pastry and baking. The fundamentals of dough and basic decorating skills are covered as well as baking equipment and baking costs.

### Culinary Arts 1

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 84507, 84508
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Culinary Essentials and Baking and Pastry
- ⇒ **Pathway:** Restaurant & Event Mgt.
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes- 4 Credit Hours ( 3 Credit Hours for the course and 1 Credit hour for Safety and Sanitation course)
- ⇒ **Clubs:** None

**Description:** This course offers an opportunity for students with a serious interest in learning about careers in the culinary and restaurant industry. Students will be trained in ServSafe regulations that apply to workplace safety. This course will include the effective use of lab organization and communication skills. The class will also build on Culinary Essentials, Baking and Pastry and Nutrition and Wellness classes. Students will develop techniques and execute menu plans while demonstrating a variety of cooking methods with sauces, fruits, vegetables, grains and proteins. Certifications: ServeSafe Manager.

[Return to Course Guide Navigation](#)

### Culinary Essentials

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 84505
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Restaurant & Event Mgt.
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This course provides students with knowledge and skills related to commercial and institutional food service establishments. Course topics range widely, but include sanitation and safety procedures, nutrition and dietary guidelines, food preparation, quantity food production, meal planning and preparation.

### Introduction to FACS

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 83602
- ⇒ **Grade Levels:** 9,10,11,12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Family, Community & Consumer Services & Teaching/ Training, and Restaurant and Event Management
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This is an introductory class for the area of family and consumer sciences. It is designed to present basic subject matter in all areas of FACS learning: clothing/textiles; resource management; foods and nutrition; interior design, child development, and family relationships. Learning experiences will assist students in understanding themselves, their roles in today's society, and the role of technology at home and at work.

### Family Studies

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 84701
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Family, Community & Consumer Science & Teaching/ Training
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Family Studies focuses on developing essential parenting skills, nurturing children's development and guiding children's behavior. Course content will include responsibilities and difficulties of parenthood, as well as basic development and care for infants and children. Students will experience a weekend as a parent by taking home an infant simulation doll, a lesson for kindergarten students. Students will gain a better understanding of the field of Early Childhood Education through projects, discussion, guest speakers and group activities. Students will be required to plan, develop, and perform .

### Fashion Studio 1

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 83902
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

*\*Fine Arts Credit*

**Description:** Students will learn the basics of the fashion industry as well as how to use a sewing machine to create fashionable garments. Students will make 2 sewing projects. An excellent learning experience for any beginning sewer. Each student will be responsible to provide fabric and other supplies for their sewing projects. Eligible for local Fine Arts credit.

### Fashion Studio 2

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 84002
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** Fashion Studio 1, 4-H sewing or teacher approval
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

*\*Fine Arts Credit*

**Description:** This course provides the opportunity to construct fabric projects using a variety of advanced sewing skills & short cuts. Students are taught how & encouraged to sew the Serger sewing machine. Each student will provide their own patterns & materials needed for class.

## FACS/CULINARY (Cont.)

### Fashion Studio 3

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 84202
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** Fashion Studio 2 or Teacher Approval
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** n/a

*\*Fine Arts Credit*

**Description:** Fashion Studio III is an excellent course for creative and self-motivated students. Students will harness their inner fashion designer to create their own patterns and garments. Using skills learned in Fashion Studio I and II students will work more independently to complete their projects. Students will acquire many advanced sewing construction techniques, including use of the embroidery machine. Each student will provide their own patterns and materials needed for class.

### Lifespan Development

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 85405
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Family, Community & Consumer Services, Education & Training,
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

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

[Return to Course Guide Navigation](#)

### Interior Design

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 85001
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** n/a

*\*Fine Arts Credit*

**Description:** This is an excellent class for students interested in learning more about the field of interior design. Students will gain knowledge and skills needed to select interior color, design and furnishings for their future home or apartment. Students will complete many hands-on design projects. Students will explore careers in housing and home furnishings.

### Nutrition and Wellness

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 84501
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Family, Community & Consumer Services, Health Science & Restaurant/Event Management
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Nutrition and Wellness enables students to analyze the interaction of nutrition, foods, and fitness for overall wellness of individuals and families throughout the lifespan. In this course students will develop nutrition and fitness habits to make wise decisions regarding healthy living and prevention of disease through these practices. As active learners, students develop higher order thinking skills and academic skills in the areas of math, science, language arts and social studies through the evaluation of relevant nutrition and wellness information. This course is recommended for all students regardless of their career cluster or pathway, in order to build basic nutrition and wellness knowledge and skills, and is especially appropriate for students with interest in human services, wellness/fitness, health, or food and nutrition related career pathways.

### Teaching as a Career

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 86103, 86104
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Family Studies or Lifespan Development. Can be concurrently enrolled.
- ⇒ **Pathway:** Teaching & Training
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Students with an interest in teaching as a career will learn about diverse learners and the different types of learners that teachers have in a classroom and how to teach to those students. They will learn different ways to enhance instruction in a classroom and have appropriate assessments and evaluations for students. Students will also learn the importance of physical space and climate for a classroom while focusing on actual teaching skills. It will be a great addition and help those students that are already participating in internships to expand their skills and knowledge of the teaching field.

## FACS (Continued)

### Career Connections

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 85543, 85544
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in a student matched career interest. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students must submit an application and resume. Students will go through an interview process. Placement is based on open opportunities.

### Teaching Internship

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 86105, 86106
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application & Teaching as a Career
- ⇒ **Pathway:** Teaching
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** Education Methodology course prepares students to teach and guide others. These courses typically provide opportunities for students to develop their own teaching objectives, to design lesson plans, and to experience teaching in a controlled environment. Students examine and practice teaching strategies, learning styles, time management and planning strategies, presentation and questioning skills, classroom management, and evaluation techniques. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students must submit an application and resume. Students will go through an interview process.

[Return to Course Guide Navigation](#)

## JOURNALISM

### Introduction to Journalism

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 12011, 12012
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** AV Communications
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** News Magazine, Yearbook, Railer Productions

*\*Fine Arts Credit*

**Description:** This course promotes the development of the skill set needed today and in the future, including an overview of the field of journalism and mass communication. Students learn to be consumers of media and to understand news gathering and production. Students will also explore photography and the principles of design. This course includes instruction in basic news writing, reporting, editing, and discussion of legal and ethical issues. Additionally, it will teach the technical skills needed to work with the Adobe software and tools used in the industry. This class is the prerequisite for News Magazine Production and/or Yearbook Production and Audio/Video production fundamentals.

### Audio/Video Communications Production Fundamentals

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 12213, 12214
- ⇒ **Grade Levels:** 10,11,12
- ⇒ **Pre-Requisites:** Teacher Approval Required
- ⇒ **Pathway:** AV Communications
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Railer Productions

*\*Fine Arts Credit*

**Description:** Audio Video Production Fundamentals provides a basic understanding of producing video for a variety of uses. Topics include analyzing the pre-production, production and post-production process, as well as exploring the equipment and techniques used to develop a quality video production. Students will gain real world experience by covering school events, which will be featured on RailerNews website. Can be repeated for credit.

## Digital Media Design/Production

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 12211, 12212
- ⇒ **Grade Levels:** 9,10,11,12
- ⇒ **Pre-Requisites:** Introduction to Journalism & Application.
- ⇒ **Pathway:** AV Communications
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** The Newtonian, The Rail-roader

*\*Fine Arts Credit*

**Description:** This is a lab course in which students will create the school news magazine (PREREQUISITE IS INTRO TO JOURNALISM) and produce online content OR create the school yearbook. This course will provide students with the opportunity to apply the fundamental techniques learned in 21st Century Journalism through the production of a multi-media project for public presentation. Topics include developing a production schedule, collaborating as a team, utilizing composition principles and embedding audio, video or other content in digital formats. Students taking this course must be self-directed and be able to work with others. Leadership, cooperation and high standards of achievement are essential in all staff members. This course may be repeated for credit.





## ENGLISH LANGUAGE ARTS (ELA)

---

Everything starts with English! The skills that students gain in their four years of English/Language Arts courses help them be successful in all their other courses, in their future careers, and in their interpersonal relationships with friends, family, and coworkers.

English/Language Arts courses focus on five skills: reading (both literature and informational texts), writing, listening, speaking, and language. That means students will read short stories, poems, plays, and novels, as well as editorials, articles, and a variety of non-fiction texts. They will write narratives and essays, and they will tackle student-directed projects that allow them to dig deeper into a variety of subjects. Students will practice presenting in front of an audience as well as being a good audience member and learning by listening. Finally, students will fine-tune their writing and use of language so that they can communicate their ideas and move their readers to action.

In addition, we offer so many choices for students! They have the choice of General or Honors English at every grade level, and students can also choose to take an agriculture-focused course or a health science-focused course. We also offer Applied English for seniors heading to the workforce and Creative Writing for our aspiring authors.

Success starts here! See you in English class!

## ENGLISH - FRESHMEN

### English 9 Team

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1021, 1022
- ⇒ **Grade Levels:** 9
- ⇒ **Pre-Requisites:** Teacher Approval
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Team English 9 is a course that meets part of the graduation requirements for ELA. This course will cover content addressed in the English Language Arts standards - reading, writing, speaking, and listening. Team English 9 has a slightly modified curriculum for students that read and/or write close to, but below grade level. Students in this class typically benefit from a smaller classroom environment and need more intensive support. This course is by teacher recommendation only.

### General English 1

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1001, 1002
- ⇒ **Grade Levels:** 9
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This course introduces concepts and develops abilities in the student's understanding of literature and the English language. There is an emphasis on skills in literature, composition, grammar, and vocabulary. The course stresses paragraphs and short writings. A focus is to develop basic skills necessary to be successful in general English courses throughout high school.

[Return to Course Guide Navigation](#)

## Honors English 1

- ⇒ **Credit:** 1.0
  - ⇒ **Course Number(s):** 1011, 1012
  - ⇒ **Grade Levels:** 9
  - ⇒ **Pre-Requisites:** An A or B in previous English class.
  - ⇒ **Course Fees:** None
  - ⇒ **Dual Credit Available:** No
  - ⇒ **Clubs:** None
- \*Weighted Course*

**Description:** Students must sign and submit a "Summer Reading and Writing Policy" form and complete summer reading and writing prior to the beginning of the school year. Honors English 1 focuses on the close reading, analytical writing, and language skills that have immediate relevance for students and that will be most essential for their future coursework.

Texts take center stage in the Honors English 1 classroom, where students engage in close, critical reading of a wide range of literary and nonfiction works. The course trains the reader to observe the small details within a text to arrive at a deeper understanding of the whole. It also trains the writer to focus on crafting complex sentences as the foundation for writing to facilitate complex thinking and to communicate ideas clearly.

## ENGLISH - SOPHOMORES

### Agricultural English 2

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1045, 1046
- ⇒ **Grade Levels:** 10
- ⇒ **Pre-Requisites:** Application & Teacher Approval Required.
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This course is designed around an agricultural lens by which the content is taught. This course deepens the student's understanding of literary types; short stories, novels, poetry, non-fiction and drama are studied through selected readings.

*\*4 Years of English required for graduation for 2026, and 2027 graduates.*

*\*3.5 Years of English required for 2028 & Beyond graduates.*

In addition to understanding the literature, students will write in response to the literature, demonstrating composition skills. There is an emphasis on grammar and vocabulary.

### English 10 Team

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1057, 1058
- ⇒ **Grade Levels:** 10
- ⇒ **Pre-Requisites:** Teacher Approval
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Team English 10 is a course that meets part of the graduation requirements for ELA. This course will cover content addressed in the English Language Arts standards - reading, writing, and listening. Team English 10 has a modified curriculum for students that read and/or write close to, but still below grade level. Students in this class typically benefit from a smaller classroom environment and need more intensive support. This course is by teacher recommendation only.

### General English 2

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1041, 1042
- ⇒ **Grade Levels:** 10
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** n/a

**Description:** This course deepens the student's understanding of literary types; short stories, novels, poetry, non-fiction and drama are studied through selected readings. In addition to understanding the literature, students will write in response to the literature, demonstrating composition skills. There is an emphasis on grammar and vocabulary.

## ENGLISH – SOPH. (Cont.)

### Health Science English 2

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1047, 1048
- ⇒ **Grade Levels:** 10
- ⇒ **Pre-Requisites:** Application Required. Intro to Healthcare A/B, 2.5 GPA
- ⇒ **Pathway:** Health Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** HOSA

**Description:** This course deepens the student's understanding of literary types; short stories, novels, poetry, non-fiction and drama are studied through selected readings. In addition to understanding the literature, students will write in response to the literature, demonstrating composition skills. There is an emphasis on grammar and vocabulary.

### Honors English 2

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1051, 1052
- ⇒ **Grade Levels:** 10
- ⇒ **Pre-Requisites:** An A or B in previous English class & Application.
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** n/a

*\*Weighted Course*

**Description:** Students must sign and submit a "Summer Reading and Writing Policy" form and complete summer reading and writing prior to the beginning of the school year. Honors English 2 prepares students for the rigors of college-level reading and writing. As readers, students develop a vigilant awareness of how the poet, playwright, novelist, and writer of nonfiction alike can masterfully manipulate language to serve their unique purposes. As writers, students compose more nuanced essays without losing sight of the importance of well-crafted sentences and a sense of cohesion.

[Return to Course Guide Navigation](#)

## ENGLISH – JUNIORS

### General English 3

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1061, 1062
- ⇒ **Grade Levels:** 11
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** n/a

**Description:** This course emphasizes close reading and written analysis of themes in American Literature. Student comprehension of their assigned reading is assessed by writing and traditional examinations. Students are expected to construct written evidence of the results of their close reading and analysis of tests. Students will construct a written research project. Student writing skills are expected to demonstrate a level of competence consistent with the Kansas State Writing Assessment indicators and consistently score higher than two on any six-trait writing evaluation rubric.

### AP Language English Language & Composition

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1103, 1104
- ⇒ **Grade Levels:** 11 & 12
- ⇒ **Pre-Requisites:** Honors Language Arts
- ⇒ **Course Fees:** Optional AP Exam Fee
- ⇒ **Dual Credit Available:** Credit Possible through AP Test
- ⇒ **Clubs:** None

*\*Weighted Course*

**Description:** The AP English Language and Composition course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction texts — including images as forms of text— from a range of disciplines and historical periods.

*\*4 Years of English required for graduation for 2026, and 2027 graduates.*

*\*3.5 Years of English required for 2028 & Beyond graduates.*

## Agricultural English 3

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1063, 1064
- ⇒ **Grade Levels:** 11
- ⇒ **Pre-Requisites:** Application & Teacher Approval
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This course is taught with agriculture as its primary theme. This course emphasizes close reading and written analysis of themes in American Literature. Student comprehension of their assigned reading is assessed by writing and traditional examinations. Students are expected to construct written evidence of the results of their close reading and analysis of tests. Students will construct a written research project. Student writing skills are expected to demonstrate a level of competence consistent with the Kansas State Writing Assessment indicators and consistently score higher than two on any six-trait writing evaluation rubric.

### Health Science English 3

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1065, 1066
- ⇒ **Grade Levels:** 11
- ⇒ **Pre-Requisites:** Human Body Systems, World History, 2.5 GPA
- ⇒ **Pathway:** Health Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** HOSA

**Description:** This course deepens the student's understanding of literary types; short stories, novels, poetry, nonfiction and drama are studied through selected readings. In addition to understanding the literature, students will write in response to the literature, demonstrating composition skills. There is an emphasis on grammar and vocabulary.

## ENGLISH - SENIORS

### Folklore Studies

- ⇒ **Credit:** 1.0 (Counts as English 4 Credit)
- ⇒ **Course Number(s):** 1097, 1098
- ⇒ **Grade Levels:** 11 & 12
- ⇒ **Pre-Requisites:** None

**Description:** This is a survey course on major concepts of folklore and U.S. Culture. According to academic viewpoints, the study of folklore helps those who study this genre understand society, build cultural sensitivity, celebrate diversity, and can validate one's own culture. To understand how folklore operates in society, the course would be organized around the following types of folklore: 1. Fairy tales, 2. Fables, 3. Myths, 4. Leg-ends, and 5. Tall Tales.

### English Composition (Hutch CC)

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** EN 101, EN 102 (In-Person at Newton High), 7611/7612 (Online)
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** HS GPA 3.0+ or 2.7+ and at least a B in most recent HS Eng Course; or Accuplacer NG Writing Score of 255+; or ACT English AND Reading Score of 18+ or 16+ and at least a B in most recent HS Eng Course
- ⇒ **Course Fees:** Hutch CC Tuition
- ⇒ **Dual Credit Available:** Yes– Hutch CC
- ⇒ **Clubs:** None

**Description:** Essentials of composition. Emphasis is placed on practice in writing expository paragraphs and themes and in using the techniques of research. Selected readings for models and criticism are used.

### General English 4

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1081, 1082
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** General English 4 is a survey course designed to prepare students to be successful in their postsecondary plans. Areas of emphasis include the reading of both fiction and nonfiction literature and writing for academic as well as vocational purposes.

### Agricultural English 4

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1083, 1084
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** Application & Teacher Approval
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** General English 4 is a survey course designed to prepare students to be successful in their postsecondary plans. Areas of emphasis include the reading of both fiction and nonfiction literature and writing for academic as well as vocational purposes. The class will be taught with a focus on Agriculture. This class is only open to Ag Academy students.

### Health Science English 4

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1085, 1086
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** None

**Description:** This English class offers reading, writing, group work, presentations, building communication skills, working with business professionals all through the lens of project management. This course highlights reading strategies, vocabulary development, critical thinking, analysis, and stresses self-advocacy. Additionally, skills such as time management, self-marketing, and “adulting” are emphasized.

### The Rhetoric of Horror

- ⇒ **Credit:** 1.0 (Counts as English 4 Credit)
- ⇒ **Course Number(s):** 1095, 1096
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** None

**Description:** This is a survey course on major concepts in horror studies. To understand how the applicability of the horror genre works, the course is organized around forms of rhetoric (ethos, pathos, logos) and transmission of the horror genre through social media and other media outlets. This course requires reading, evaluation, and analysis of many texts.

## ENGLISH ELECTIVES

### Reading Skillbuilding

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 79451, 79452
- ⇒ **Grade Levels:** 9, 10
- ⇒ **Pre-Requisites:** Teacher Approval
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Reading Skills is a course that explicitly teaches reading strategies that improve fluency and comprehension of fiction and non-fiction to struggling readers.

## ENGLISH ELECTIVES (Cont.)

### Creative Writing

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 1015
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Poetry Club

**Description:** This English elective is designed for any level of student (9-12) to create original forms of descriptive writing, fiction, poetry, essays, and/or children's literature. This course highlights reading strategies, vocabulary development, critical thinking, and analysis, and stresses the process of writing, editing, and revising. This will entail students reading each others' work, forming a trusting, supportive environment while critiquing and evaluating original writings. 75% of the grade is based on participation in daily activities. The remaining 25% of the grade will be placed on the quality of a writing portfolio due at the end of the semester. Students will also submit their work to local and national publications and writing contests. Final compositions will be presented using computers/ word processing documents.

### Public Speaking (Hutch CC)

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** SH101 (In-Person at Newton High), 7614 (Online)
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** Hutch CC Tuition
- ⇒ **Dual Credit Available:** Yes– Hutch CC
- ⇒ **Clubs:** None

**Description:** Principles and practices of oral communication that will help the student develop skills in communication and acquire an understanding of oral communication as a vital human skill and activity.

## HERITAGE SPEAKERS

### English 2nd Language I

- ⇒ **Credit:** 0.5 to 1.0
- ⇒ **Course Number(s):** 7511, 7512
- ⇒ **Grade:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** Teacher Recommendation Only

**Description:** Courses are designed for the acquisition and rapid mastery of the English language, focusing on reading, writing, speaking, and listening skills. ESL courses usually begin with extensive listening and speaking practice, building on auditory and oral skills, and then move on to reading and writing. These courses provide an explanation of basic structures of the English language, enabling students to progress from an elementary understanding of English words and verb tenses to a more comprehensive grasp of various formal and informal styles and then to advance to “regular” English courses. ESL classes may also include an orientation to the customs and culture of the diverse population in the United States.

### English 2nd Language II

- ⇒ **Credit:** 0.5 to 1.0
- ⇒ **Course Number(s):** 7513, 7514
- ⇒ **Grade:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** Teacher Recommendation Only

**Description:** Courses are designed for the acquisition and rapid mastery of the English language, focusing on reading, writing, speaking, and listening skills. ESL courses usually begin with extensive listening and speaking practice, building on auditory and oral skills, and then move on to reading and writing. These courses provide an explanation of basic structures of the English language, enabling students to progress from an elementary understanding of English words and verb tenses to a more comprehensive grasp of various formal and informal styles and then to advance to “regular” English courses. ESL classes may also include an orientation to the customs and culture of the diverse population in the United States.

## Spanish Heritage Lang Learners I

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1741, 1742
- ⇒ **Grade:** 9, 10, 11, 12
- ⇒ **Clubs:** Spanish Club

**Description:** This course is designed for students who speak Spanish at home and is geared toward improving listening, viewing, reading, speaking, and writing skills with the goal of achieving the Kansas State Seal of Biliteracy in their Junior/Senior year of high school. The class is conducted in Spanish and covers Spanish spelling, language use, writing organization and is designed to increase student's knowledge of Latin American literature and culture. Students may take this class twice, completing Levels I and II. Students who would like to continue their language study would follow this course progression: Heritage Language Learners I and II, Spanish 3 or 4, level 5 and or Independent Study.

## Spanish Heritage Lang Learners II

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1743, 1744
- ⇒ **Grade:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** Spanish Heritage I
- ⇒ **Clubs:** Spanish Club

**Description:** This course is Designed to provide heritage speakers of Spanish with a deepened and enriched understanding of their linguistic and cultural identity within a multicultural context. This course aims to expand students' existing Spanish language skills through multimodal communication strategies, including interpretive, presentational, and interpersonal modes, better attending to their level and needs. Hence, students will explore their personal connections to the Spanish language while gaining linguistic strategies. .



## **FINE ARTS (PERFORMING ARTS)**

---

The Newton High School Fine Arts Department is composed of Visual Arts, Choir, Band, Orchestra, Theatre, Debate, Forensics, and Speech. These classes will inspire creativity, critical thinking, reflection, culture, essential skills, techniques, and processes. Creating, interpreting, and responding in the arts stimulate the imagination and encourage innovation and creative risk-taking. The arts are inherently experiential and actively engage learners in the processes of creating, interpreting, and responding to art. All classes in this section can receive Fine Arts Credit for Graduation.

# FINE ARTS—VISUAL ARTS

## AP Studio Art

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 4197, 4198
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Painting and Drawing 2, Ceramics 2, Graphic Design 2, or teacher permission.
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Art Club

**Description:** This course focuses on in-depth individual work, the creation of a two part portfolio and offers the possibility of college credit for those students who successfully complete all AP Art requirements including the exam fee. AP testing is not required. Students enrolled in this class usually have some work already completed for their portfolio which consists of at least 14 best examples of their art. May be repeated for credit.

## Ceramics 1

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 4171
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Art Club

**Description:** This class will be an introduction to ceramics. Topics covered will include hand building, firing processes, glazing, and presenting finished works. Sketchbook is required.

## Ceramics 2

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 4181, 4182
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Ceramics 1
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Art Club

**Description:** This course is a continuation of ceramics. Topics covered will include advanced handbuilding, wheel

throwing introduction, firing processes, glazing, and presenting finished works.

This course is for students who want to continue to develop strengths and improve weaknesses in ceramic work.

Sketchbook is required.

## Ceramics 3

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 4183, 4184
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Ceramics 2
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Art Club

**Description:** This course is a continuation of ceramics. Topics covered will include advanced hand building, advanced wheel throwing introduction, firing processes, glazing, and presenting finished works. This course is for students who want to continue to develop strengths and improve weaknesses in ceramic work. Sketchbook is required.

## Graphic Design 1

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 41411, 41412
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Painting & Drawing 1
- ⇒ **Pathway:** AV Communications
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Art Club

**Description:** This course provides a basic understanding of the graphic design process, and is for the design-oriented student. Topics include analyzing the design elements and principles, exploring industry tools, software and equipment and learning composition techniques to develop a quality product. The use of the computer as an art tool will be introduced.

## Graphic Design 2

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 41511, 41512
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Graphic Design 1
- ⇒ **Pathway:** AV Communications
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Art Club

**Description:** A class for the advanced graphics design student. There will be further exploration in typography and graphic design. Focus will be towards a career as a graphics designer.

## Painting and Drawing 1

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 4121
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Art Club

**Description:** This is a semester-long hands-on art course designed to familiarize students with traditional and contemporary 2-dimensional art techniques. Students will use mediums of painting and drawing for this class. Students must bring art supplies.

## FINE ARTS (Continued)

### Painting and Drawing 2

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 4131, 4132
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Painting and Drawing 1
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Art Club

**Description:** This is a year-long hands-on art course designed to challenge students with traditional and contemporary 2-dimensional art techniques. Students will use more advanced mediums of painting and drawing for this class. Art history will be a part of the class. Students must bring art supplies.

### Painting and Drawing 3

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 4143, 4144
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Painting and Drawing 2
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Art Club

**Description:** This is a year-long hands-on art course designed to challenge students to use traditional and contemporary 2-dimensional art techniques independently. Students will use more advanced mediums of painting and drawing for this class. Art history will be a part of the class. Students must bring art supplies.

## FINE ARTS - BAND

### Band

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 4501, 4502
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** Permission of instructor. Students generally have two or more years of band experience before enrolling in this course.
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

[Return to Course Guide Navigation](#)

**Description:** This class functions as a marching unit in the fall of the year, performing at football games and select festivals. Following football season, the band divides into a symphonic concert band and a symphonic wind ensemble. These groups prepare and perform selections from the concert band repertoire. In addition to several home concerts, these bands participate in clinics and festivals outside the Newton community. Various groups, including ensembles, pep band and orchestra winds, are selected from the band enrollment. All wind and percussion players electing instrumental music must enroll in band.

### Jazz Ensemble 1

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 4521, 4522
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** Must be enrolled in Band or Orchestra and complete an audition. Students generally have two or more years of band/orchestra experience before enrolling in this course.
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Students in the course prepare and perform music from the jazz and big band repertoire. In addition to appearances at home in concerts and assemblies, the jazz ensemble participates in clinics and festivals outside the Newton community.

### Jazz Ensemble 2

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 4531, 4532
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** Must be enrolled in Band or Orchestra and have permission of instructor. Students generally have two or more years of band/orchestra experience.
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Students in the course study and perform music from the jazz and big band repertoire. This group performs at home concerts and at select festivals outside Newton community.

## FINE ARTS - CHOIR

### Choraleers

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 4431, 4432
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** Auditioned Ensemble
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Tri-M

**Description:** This is a mixed chorus chosen by audition. The Choraleers prepare and perform selections from the standard mixed chorus repertoire. In addition to the regular series of performances in the school, the Choraleers make appearances at special holiday services, music festivals and conventions, both in and outside of the Newton area.

### Concert Choir

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 4411, 4412
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites & Course Fees:** None
- ⇒ **Clubs:** Tri-M

**Description:** This choir is open to anyone in grades 9-12. This will be a non-auditioned mixed choir. There will be 2 performances a year. Music from a wide variety of literature will be learned and performed, as well as learning basic music theory and history.

### Les Chantes

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 4423, 4424
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** Auditioned Ensemble
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Tri-M

**Description:** This choir is made up of treble voices for grades 9-12. This choir is an auditioned ensemble made of treble voices. Les Chantes performs at concerts, programs, and music festivals. Students will perform a varied repertoire as well as concentrate on sight-reading skills, music theory skills, and music history.



## FINE ARTS - CHOIR

### Railaires

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 4441, 4442
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** Auditioned Ensemble
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Tri-M

**Description:** This is a select mixed ensemble chosen from the Choraleers. This group will study and perform advanced selections from the madrigal and chamber choir repertoire in addition to jazz, pop, and show choir material. The Railaires perform each year through concerts, club programs, clinics, and festivals.

## FINE ARTS - DRAMA

### Drama 1

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 42005
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Drama Club

**Description:** Drama 1 provides students an opportunity to explore the art and craft of theatre. Beginning drama students will study communications, basic acting, play production, technical theatre, and theatre history. For their final task, students will focus on either performance or technical theatre to create their own project. PERFORMANCE and PUBLIC SPEAKING is REQUIRED for this class.

### Drama 2

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 42007
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** Drama 1
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Drama Club

**Description:** Drama II is the companion class to Drama I. A continuation of the exploration of theatre, Drama II students will build on skills learned in Drama I and focus on improvisational acting, ensemble acting, theatre history, and how to put on a production. We will also research how theatre can be used to improve the world via current events, therapy, and service. As a final project, students will complete a class production as a service project to help the local community. PERFORMANCE is REQUIRED for this class.

### Drama 3

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 4213, 4214
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Drama 2
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Drama Club

**Description:** This is a very performance-heavy class. For the first semester, students will focus on theatre history and movements, which includes various acting methods, script analysis, character development, and theatrical techniques and components. Second semester becomes a project semester where students put their skills into practice. The class will work together to create a production which will consist of multiple One-Act Plays or a class production of one full-length play. Some may even choose to produce a play written by a classmate. All students will work together to create the technical aspects for a production. The students will be directing, managing, building group and team skills, and learning advanced performance technique. PERFORMANCE is REQUIRED for this class.

### Drama 4

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 4215, 4216
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Drama 2
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Drama Club

**Description:** This is a very performance-heavy class. For the first semester, students will focus on theatre history and movements, which includes various acting methods, script analysis, character development, and theatrical techniques and components. Second semester becomes a project semester where students put their skills into practice. The class will work together to create a production which will consist of multiple One-Act Plays or a class production of one full-length play. Some may even choose to produce a play written by a classmate. All students will work together to create the technical aspects for a production. The students will be directing, managing, building group and team skills, and learning advanced performance technique. PERFORMANCE is REQUIRED for this class.

### Tech Theatre

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 4205, 4206
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Drama 1
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Drama Club

**Description:** This is a "lab" class. Students will spend time working in the auditorium on all technical areas of school productions and theatre maintenance. Students will build leadership skills, team skills, and problem solving skills. Tech theatre students will have the opportunity to design for school productions. Students in this class will also be required to participate on crew for all school productions. May be taken multiple times.

## FINE ARTS - ELECTIVES

### Music Appreciation—Hutch

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 4453
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** Yes— Hutch CC Credit
- ⇒ **Dual Credit Available:** Yes

**Description:** Dual Credit Course with Hutchinson Community College. Students will learn how to listen and analyze music. Students will learn about the different musical time periods and major composers. Students will also learn basic music vocabulary.

### Music Theory

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 4428
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Students must be in a performing ensemble to enroll in music theory.
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Tri-M

**Description:** Students will learn chord structure, scales, analysis, sight-singing, music notation, conducting, and composition. This class is geared toward college-bound music students to prepare them for College Music Theory courses. Students who are interested in majoring or minoring in music are strongly encouraged to take this class to ensure success in their college music programs. This is a non-performing class.

## Beginning Guitar

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 4517
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** No
- ⇒ **Dual Credit Available:** No

**Description:** This class is geared towards someone who has little to no experience playing guitar. Students will learn chords, note reading, rhythm reading, strumming patterns, TAB reading, solo playing and guitar ensemble experience. Students will participate in a culminating concert at the end of the semester. Students will also need to provide their own guitar and purchase a guitar book.

### Intermediate Guitar

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 4518
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Beginning Guitar
- ⇒ **Course Fees:** No
- ⇒ **Dual Credit Available:** No

**Description:** Intermediate Guitar is a class for students that have completed Beginning Guitar or can show the instructor that they have enough previous knowledge to be successful in Intermediate Guitar. Students will continue to learn more advanced techniques, styles, chords, and work on note reading skills in a guitar ensemble. Students will have the opportunity to learn bass guitar as part of the guitar ensemble.

## FINE ARTS - ORCHESTRA

### String Orchestra

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 4513, 4514
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** Previous orchestral experience or instructor approval
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Tri-M

**Description:** The study of music is an important part of a well-rounded educational experience. Orchestra students will engage in a practical study of the subject, honing their talents as string players and musical thinkers to develop meaningful programs for public performance. Wind and percussion players may be chosen from the band to perform with the string players, making a full orchestra. The orchestra performs 6 to 8 concerts per year and participates in clinics and festivals outside the Newton area.

### Chamber Orchestra

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 4511, 4512
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** Audition
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Tri-M

**Description:** The study of music is an important part of a well-rounded educational experience. Orchestra students will engage in a practical study of the subject, honing their talents as string players and musical thinkers to develop meaningful programs for public performance. This advanced course demands a higher level of commitment and studies more technical literature than does Orchestra I. Wind and percussion players may be chosen from the band to perform with the string players, making a full orchestra. The orchestra performs 6 to 8 concerts per year and participates in clinics and festivals outside the Newton area.

## FINE ARTS - SPEECH

### Forensics

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 13202
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** National Speech and Debate Association

**Description:** This is an advanced speech class offering the student an opportunity to specialize in one of the following fields: oratory, extempore, informative speech, oral interpretation of prose and poetry, and duet acting. Students must participate in extra-curricular forensic competition throughout the semester. This class may be repeated for a total of two credits. Students are required to participate in competition.

### Experienced Debate

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 13101
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Novice Debate
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** National Speech and Debate Association

**Description:** This course provides experienced debaters with in-depth research, analysis and argumentation opportunities. Regular competition at extra-curricular tournaments is required and students must assist with hosting the NHS Railroader Debate Tournament. After school preparation and weekends are required. This class fulfills the required communications credit.

### Novice Debate

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 13001
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** National Speech and Debate Association

*\*Communications Credit*

**Description:** This course provides an introduction to the theories and practices of competitive policy debate. The course involves public speaking, reading aloud, argumentation, research and analysis of the current debate topic. Strong problem solving skills and advanced reading skills are required. Students must assist with hosting the NHS Railroader Debate Tournament. Individual participation in after school and weekend debate tournaments is required. Students must be self-motivated and work well with others. This course fulfills the required communications credit.

### Speech

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 10251
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No (It is available through Hutch CC for Dual Credit).
- ⇒ **Clubs:** None

**Description:** This course provides an overall view of oral communication. Speeches include informative, persuasive and autobiographical types. Non-verbal communication and various outline formats are studied. This is the primary class to fulfill the required communications credit.

### Spring Debate

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 1312
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** National Speech and Debate Association

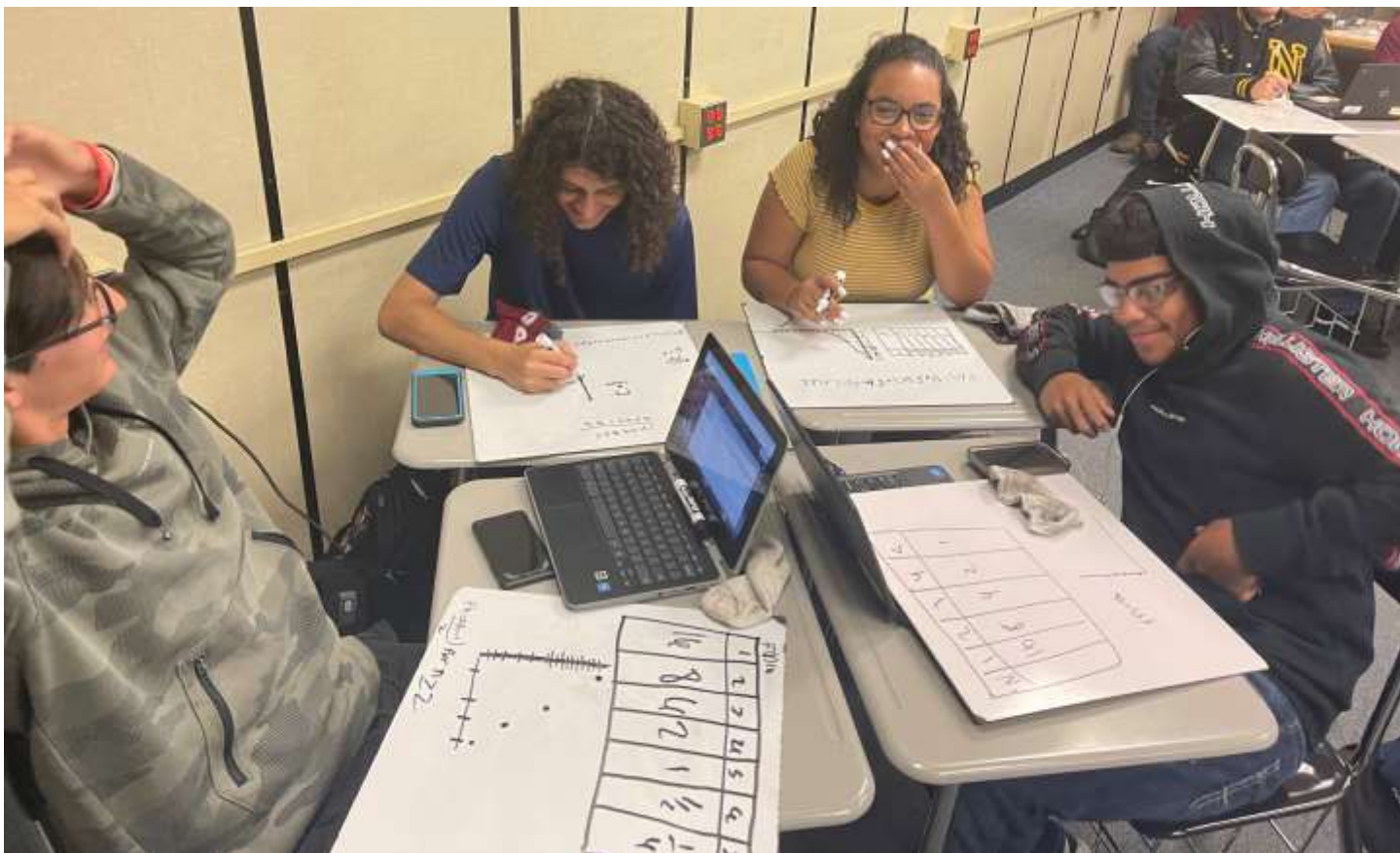
**Description:** This class is for students who wish to compete in Spring/Forensics debate related activities and those waiting to research the new Cross Examination (CX) topic. Students will be required to attend out of school contests and work sessions. Competitions include the Lincoln/Douglas debate, Controversy or Cross-Fire debate, Student Congress, or Legislative debate, Foreign and Domestic Extemporaneous, as well as Original Oration and Informative Speaking. Research is required for topics. DOES NOT count as a communication credit.

### Public Speaking (Hutch CC)

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** SH101 (In-Person at Newton High), 7614 (Online)
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** Hutch CC Tuition
- ⇒ **Dual Credit Available:** Yes– Hutch CC
- ⇒ **Clubs:** None

**Description:** Principles and practices of oral communication that will help the student develop skills in communication and acquire an understanding of oral communication as a vital human skill and activity.



## MATHEMATICS (MATH)

---

In high school mathematics students are challenged to think critically, construct solid arguments, and see many sides of a problem — all skills that prepare them for life beyond high school.

Most students follow a progression through Algebra 1, Geometry and Algebra 2 and then choose from a variety of courses to prepare for college and careers.

A minimum of three math credits are required for graduation.

# MATHEMATICS

## Algebra 1

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3041, 3042
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Algebra I uses multiple representations (graphical, numerical, and analytical) as settings for work with linear expressions, linear equations, exponents, polynomials, functions, and statistics with applications.

## Math Lab for Algebra 1

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3051, 3052
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This course is designed for students who may need additional time to master algebraic concepts. Placement is made by teacher recommendation. This course counts as 1 elective credit.

## Geometry

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3061, 3062
- ⇒ **Pre-Requisites:** Algebra 1
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** Geometry is the study of visual patterns and geometric properties, transformations, proofs, and right triangle trigonometry. The content uses multiple representations integrated with algebraic concepts.

## Math Lab for Geometry

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3053, 3054
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This course is designed for students who may need additional time to master geometry concepts. Placement is made by teacher recommendation. This course counts as 1 elective credit.

## Honors Geometry

---

*\*Weighted Course*

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3091, 3092
- ⇒ **Pre-Requisites:** Algebra 1
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Geometry is the study of visual patterns and geometric properties, transformations, proofs, and right triangle trigonometry. The content uses multiple representations integrated with algebraic concepts. Content in Honors Geometry will be greater in depth and more rigorous. Multiple representations integrated with algebraic concepts will be used. Greater emphasis will be placed on applications, multi-step problems, and proofs. Students enrolled in this course should have strong mathematical problem-solving skills.

## Algebra 2

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3071, 3072
- ⇒ **Pre-Requisites:** Geometry or Honors Geometry
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Algebra 2 is a recommended course for college-bound students. Multiple representations are used as settings for work with number properties, graphs, expressions, equations, inequalities, rational expressions, functions, and trigonometry.

## Honors Algebra 2

---

*\*Weighted Course*

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3101, 3102
- ⇒ **Pre-Requisites:** Geometry or Honors Geometry or Geometry in Construction
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This course is similar in scope to Algebra 2 content and will be greater in depth. Multiple representations integrated with geometric concepts, and statistical applications will be used. Greater emphasis will be placed on applications and multi-step problems. Students enrolled in this course should have strong mathematical problem-solving skills.

## Math Lab for Algebra 2

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3057, 3058
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This course is designed for students who may need additional time to master algebraic concepts. Placement is made by teacher recommendation. This course counts as 1 elective credit.

## MATHEMATICS (Cont.)

### Data Science

---

- ⇒ **Credit:** 1.0 (elective)
- ⇒ **Course Number(s):** 3203, 3204
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** This course introduces students to the main ideas in data science. Students will learn to be data explorers in project-based units, in which they will develop their understanding of data analysis, sampling, correlation/causation, bias and uncertainty, probability, modeling with data, making and evaluating data-based arguments, and the power of data in society.

### AP Statistics

---

*\*Weighted Course*

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 32011, 32012
- ⇒ **Pre-Requisites:** Algebra 2 or Honors Algebra 2
- ⇒ **Course Fees:** Possible through AP Exam
- ⇒ **Dual Credit Available:** No

**Description:** This course will provide motivated students with an outstanding opportunity to excel academically. This is a project-based course in which students design surveys and experiments, gather data, analyze the data numerically and graphically, and apply inferential statistics to draw conclusions for a population. A graphics calculator is required: TI-84 Plus, TI-84 Silver Edition.

### Transition to College Algebra

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 3103
- ⇒ **Pre-Requisites:** Algebra 2 or Honors Algebra 2, 3.5 cumulative GPA, AccuNextGen QRAS score of 263, or ACT math score of 21
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** The goal of this course is to develop students' quantitative and algebraic reasoning abilities to prepare them for college success in multiple mathematics pathways. Mathematics topics include: numeracy with an emphasis on estimation and fluency with large numbers; manipulating and evaluating expressions and formulas, to include area, perimeter, and volume; rates, ratios, and proportions; percentages; linear equations and inequalities; linear systems; exponential, quadratic, rational, and square root models, including equations; data interpretations including graphs and tables; verbal, algebraic, and graphical interpretations of functions.

### College Algebra

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** MA106 (In-Person at Newton High), 7631 (Online)
- ⇒ **Pre-Requisites:** 3.25+ cumulative GPA and at least a B in HS Alg 2; AccuNextGen QRAS score of 263+, or ACT math score of 22+
- ⇒ **Course Fees:** College Tuition Fees
- ⇒ **Dual Credit Available:** Yes— Hutch CC
- ⇒ **Clubs:** None

**Description:** College Algebra is a dual credit course through Hutchinson Community College that covers the theory of equations, functions, inverse functions, complex numbers, determinants and

### AP Pre-Calculus

---

*\*Weighted Course*

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3143, 3144
- ⇒ **Pre-Requisites:** Geometry and Honors Algebra 2
- ⇒ **Course Fees:** Possible through AP Exam

**Description:** AP Precalculus integrates statistical and algebraic concepts. Multiple representations are used as settings for work with number properties, graphs, equations, sequence, series, trigonometry, and functions. Modeling real-world data, mastering symbolic manipulation, and exploring mathematics that represents a dynamic world guide the focus of the course. This course is designed as a precursor to AP Calculus or other college level math courses.

### AP Calculus

---

*\*Weighted Course*

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3131, 3132
- ⇒ **Pre-Requisites:** Pre-Calc
- ⇒ **Course Fees:** AP Exam Fee (Optional)
- ⇒ **Dual Credit Available:** Possible through AP Exam
- ⇒ **Clubs:** None

**Description:** Topics studied include elementary functions, limits, differential calculus and integral calculus. Students will be eligible to take the Advanced Placement Calculus AB Exam for possible college credit. This full-year course will approximate the first semester calculus course at the college level. A graphics calculator is required: TI-84 Plus, TI-84 Silver Edition.



## PHYSICAL EDUCATION (WEIGHTS)

---

The Physical Education Department offers two required courses for graduation, PE I Health and PE I Fitness. We also offer a wide variety of elective courses: Team Sports, Individual Sports, and Weights and Conditioning. If you are looking to improve your overall health, fitness, and body composition one or all of these courses is for you.

# PHYSICAL EDUCATION

## Individual Sports

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 60705
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** PE I Fitness/Health
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** Individual Sports will explore a broad range of sports including badminton, tennis, bowling, swimming, frisbee golf, and many more. May NOT be repeated for credit.

## PE I - Fitness

---

*\*Graduation Requirement*

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 60001
- ⇒ **Grade Levels:** 9
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This section of PE I (one) includes two classroom units of instruction on nutrition and safety. Students will also participate in fitness activities such as volleyball, swimming, orienteering, and an orientation unit introducing the concepts of our program.

## PE I - Health

---

*\*Graduation Requirement*

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 60101
- ⇒ **Grade Levels:** 9
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This section includes two classroom units of instruction on stress management and reducing the risk of pregnancy, HIV and STD's. Parents may opt out their students from the critical health unit. Students will also participate in fitness activities such as golf, strength and conditioning, a striking unit, and a fitness walking/jogging program.

[Return to Course Guide Navigation](#)

## Strength & Conditioning- 0-Hour

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 6051, 6052
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** Experience & Teacher Approval
- ⇒ **Course Fees:** None
- ⇒ **Clubs:** Power Lifting Club

**Description:** This course is for the student concentrating on muscular flexibility, strength, and endurance. This will include using weight equipment with lifts for both upper and lower body. Zero hour classes have the same attendance requirements as do all other classes. Requests will be reviewed by instructors and students not accepted into 0 hour will be added to a weights class within the 8 hour schedule.

## Strength & Conditioning

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 6055, 6056
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Clubs:** Powerlifting Club

**Description:** This course is for the student interested in developing a muscular flexibility, strength, and endurance. This will include using weight equipment with lifts for both upper and lower body. All students involved in athletics are encouraged to take this course. May be repeated for credit.

## Team Sports

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 60703
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** PE I Fitness/Health
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Team Sports will explore a broad range of sports including volleyball, basketball, team handball, colony ball, dodgeball, h-ball, hoop ball, ultimate frisbee, and many others. The class is designed for students that enjoy competitive team sports. May not be repeated for credit.

## Advanced PE

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 60707
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** PE I Fitness/Health
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** This class is for the student interested in playing a variety of games and improving his or her overall fitness. Activities may include: basketball, softball, volleyball, tennis, swimming, badminton, pickle ball, team handball, speedball, soccer, conditioning, matt ball, kick ball, whiffle ball, indoor target archery, bowling, disc golf, sand volley ball and various indoor and outdoor games.





## SCIENCE

---

The NHS science department offers a diverse range of courses to facilitate students' post-secondary goals. Foundational courses (Life Science and Integrated I and II) focus on fundamental science concepts for students who require more academic support in order to fulfill their science credit requirements for graduation.

General courses (Biology, Chemistry, Physics) are suitable for students who are considering college or additional career training after high school, but might not have an interest in a science-related career.

Honors courses (Honors Biology, Honors Chemistry I, AP Chemistry, Honors Physics, A&P, AP Biology) provide an academically rigorous curriculum to prepare students to be successful in a four-year college or university.

We also offer several elective courses (Environmental Science, Biotechnology in Medicine, Human Body Systems) for students who are interested in exploring specific areas of science. It should be noted that many of these courses are also part of the NHS Health Science Academy, which is for students who are interested in a healthcare-related career.

# Science Course Sequence

Level	9th	10th	11th	12th
<b>Foundational</b>	3523-3524 Life Science	3723-3724 Integrated I	3725-3726 Integrated 2	
<b>General</b>	3531-3532 Biology	3541-3542 Chemistry	3571-3572 Physics	3571-3572 Physics
			3727-3738 Environmental	3727-3738 Environmental
			3743-3744 Human Body Systems	3743-3744 Human Body Systems
			8093-8094 Biotech in Medicine	8093-8094 Biotech in Medicine
				3601-3602 Anatomy & Physiology
<b>Honor</b>	3535-3536 Honors Biology	3551-3552 Honors Chemistry	3563-3564 AP Chemistry	3563-3564 AP Chemistry
			3581 - 3582 Honors Physics	3581 - 3582 Honor Physics
			3601-3602 Anatomy & Physiology	3601-3602 Anatomy & Physiology
			8093-8094 Biotech in Medicine	8093-8094 Biotech in Medicine
				3611-3612 AP Biology



# SCIENCE

## Biology

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3531, 3532
- ⇒ **Grade Levels:** 9
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Health Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:**

**Description:** Biology is the study of living organisms. Topics include biochemistry, cell biology, genetics, population genetics, evolution, classification, and ecology. Laboratory experiments and various activities are used to cover topics.

## Honors Biology

---

*\*Weighted Course*

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3535, 3536
- ⇒ **Grade Levels:** 9
- ⇒ **Pre-Requisites:** Grade of A or B in previous science class or by teacher recommendation
- ⇒ **Pathway:** Health Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Honors Biology takes a more in-depth look at the same topics covered in Biology (3531-3532). This course is designed to prepare students for college-level science. Conceptual development of key biological ideas and processes, as well as learning real-world laboratory investigative skills, are key components of this class. Students also practice scientific reading skills and apply mathematical computations to scientific phenomena. This course provides the relevant content background and skills for enrollment in AP Biology during the student's Senior year.

## Life Science

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3523, 3524
- ⇒ **Grade Levels:** 9
- ⇒ **Pre-Requisites:** Teacher Recommendation
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This is an essential skills course that focuses on the common core curriculum in life science. Topics covered in the class include biochemistry, cell biology, genetics, population genetics/evolution, classification and ecology. Laboratory experiments and various activities are used to cover these topics.

## Chemistry

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3541, 3542
- ⇒ **Grade Levels:** 10, 11
- ⇒ **Pre-Requisites:** Biology 1
- ⇒ **Pathway:** Health Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Chemistry Club

**Description:** This course will emphasize building students' understanding of the fundamental structures and properties of matter. Students will develop core concepts of chemistry based on the periodic table, bonding, kinetic theory, and the nature of matter in solutions, and the mole concept. Concepts are reinforced by numerous laboratory experiments.

## Honors Chemistry 1

---

*\*Weighted Course*

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3551, 3552
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Grade of B or higher in Algebra I
- ⇒ **Pathway:** Health Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Chemistry Club

**Description:** This laboratory science course deals with the structure and composition of materials and the changes they undergo and is designed to provide an understanding of the properties and conditions that are involved in reactions. The foundation of chemistry is reinforced by the use of numerous laboratory experiments. Student effort and test scores will be emphasized.

## AP Chemistry

---

*\*Weighted Course*

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3563, 3564
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Honors Chemistry 1 and completion or concurrent enrollment in Algebra 2
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** AP Test (Optional)
- ⇒ **Dual Credit Available:** Possible credit through AP Test
- ⇒ **Clubs:** Chemistry Club

**Description:** The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year.

## SCIENCE (Continued)

### Integrated Science 1 & 2

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3725, 3726, 3723, 3724
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** Integrated Science 1 is the first course of a two course sequence to meet the science requirement for high school graduation. Integrated Science includes topics in physical science (physics and chemistry), earth and space science, and life science. Themes include systems, models, energy, patterns, change, and constancy. Scientific skills, techniques, processes, methods, and reasoning are practiced. Emphasis is placed on skills and knowledge that provide a good foundation for understanding our natural world.

### Human Body Systems

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3743, 3744
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Biology and Chemistry I (or concurrent enrollment)
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** HOSA

**Description:** Students in this course study the technical names for many body structures and how the various systems in the body function. Homework is minimal. Lab activities including working with models and specimens take up the majority of class time. This course, which is open to anyone wanting to know more about the human body, provides a good foundation for students interested in pursuing careers in the various medical technologies or non-technical nursing fields.

### Anatomy & Physiology

*\*Weighted Course*

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3601, 3602
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Completed Honors Biology and Honors Chemistry; or Completed Human Body Systems with a B or higher.
- ⇒ **Pathway:** Health Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Anatomy and Physiology is a challenging course designed for students considering majoring in the more rigorous medical-related fields such as pre-Vet, pre-Med, pre-physical therapy, or pre-pharmacy. This course is recommended for students considering pursuit of an advanced degree in nursing or becoming a Physician's Assistant. Human structures and the function of those structures from the chemical to organism level will be emphasized. To succeed, students must commit a minimum of a half hour per day on their own time for homework and studying and work during Seminar or before school may be necessary. This course will count as an Academic Recognition Honors credit.

### Health Science Academy Anatomy & Physiology

*\*Weighted Course*

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3605, 3606
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Completed Honors Biology and Honors Chemistry; or Completed Human Body Systems with a B or higher. Acceptance in Health Science Academy.
- ⇒ **Pathway:** Health Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** HSA Anatomy and Physiology is a challenging course designed for students considering majoring in the more rigorous medical-related fields such as pre-Vet, pre-Med, pre-physical therapy, or pre-pharmacy. This course is required for juniors in the Health science academy. It is designed for students considering pursuit of an advanced degree in nursing or becoming a Physician's Assistant. Human structures and the function of those structures from the chemical to organism level will be emphasized. To succeed, students must commit a minimum of a half hour per day on their own time for homework and studying and work during Seminar or before school may be necessary. This course will count as an Academic Recognition Honors credit.

### Biotechnology in Medicine

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8093, 8094
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Biology and Chemistry
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This 11th/12th grade course is an introduction to the field of biotechnology with an emphasis on medical technology and research. The course covers a variety of skills and techniques including microbiology, recombinant DNA technology, gel electrophoresis, ELISA, CRISPR, PCR, gene therapy, disease testing, and vaccine development. Students will also learn about related career fields as well as current medical technologies and applications.

## SCIENCE (Continued)

### AP Biology

---

*\*Weighted Course*

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3611, 3612
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Honors Biology and Honors Chemistry I
- ⇒ **Pathway:** Health Science
- ⇒ **Course Fees:** AP Test (Optional)
- ⇒ **Dual Credit Available:** Credit possible through AP Test
- ⇒ **Clubs:** None

**Description:** The AP® Biology framework is a fundamental shift from a model that emphasized coverage of content to one that focuses on scientific process and inquiry. The new AP curriculum model employs overarching "Big Ideas" which are tied together by various science practices and essential concepts supported by relevant content. As a result, students who take AP Biology will develop advanced skills in the areas of scientific research design, data collection, data analysis, and application of mathematical models. Students who successfully complete AP Biology are eligible to take the AP Biology exam.

### Physics

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3571, 3572
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Algebra II (or concurrent enrollment)
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Physics seeks to describe and predict natural events. This course will discuss the basics in fields of physics such as kinematics, dynamics, electricity, and waves (both sound and light). Students in physics will learn how to think critically, in a scientific manner, about the physical environment. Problem solving skills are emphasized. Units are

[Return to Course Guide Navigation](#)

based around themes that help relate physics to real life situations.

### Honors Physics

---

*\*Weighted Course*

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3581, 3582
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Grade of A or B in Honors Chemistry I and Honors Algebra II. Students must receive instructor approval if concurrently enrolled in Honors Algebra II.
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Physics seeks to describe and predict natural events. This course will discuss the basics in fields of physics such as kinematics, dynamics, electricity, and waves (both sound and light). Students in physics will learn how to think critically, in a scientific manner, about the physical environment. This course will cover all the topics taught in physics plus selected additional topics. Compared with regular physics, Honors Physics places a greater emphasis on the math involved in physics explanations. The expectation for student performance, individual student responsibility, and outside of class work will be greater than in the regular physics class. This course is designed to meet the needs of students who possess advanced math and science skills.

### Environmental Science

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3727, 3728
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Biology and Chemistry I
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Designed for Juniors and Seniors, Environmental Science covers a broad scope of topics including ecology, the biosphere, land, forests and soil, water, energy and resources, and societies and policy. Some of the goals of the course include:

- Understanding how systems in the natural world are interconnected.
- Examining the natural cycles of energy flow and evaluating how human interaction affects these cycles.
- Modeling real-world situations and recognizing possible consequences of specific actions.
- Defending the best choices to protect the environment with changing trends in human populations.
- Interpreting evidence and learning to report on environmental conditions and hazards.

### Sports Medicine

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 80871, 80872
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Human Body Systems or Anatomy and Physiology or concurrent enrollment in Anatomy and Physiology.
- ⇒ **Pathway:** Health Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** None
- ⇒ **Clubs:** None

**Description:** This class will expand on topics learned in Anatomy and Physiology including on how they connect to exercise, nutrition, drugs, injury, tissue healing, skeletomuscular system focusing on common injuries, rehabilitation and anatomy. Students will also learn different taping techniques including: Arch, Turf Toe, Ankle, Achilles, Wrist, Thumb, Elbow, and Shoulder Spica. This course is highly recommended for students interested in pursuing careers in athletic training physical therapy, sports medicine or chiropractic medicine. Sports medicine is an elective credit (not a Science credit).



## **SOCIAL STUDIES (HISTORY)**

---

Social studies courses build a critical understanding of the history, political, economic, geography, and social institutions, traditions, and values of the United States and the world. Studying concepts from history, government and the other social sciences encourages and helps students develop healthy relationships and become life-long learners who are contributing citizens in our local, state, national and global communities.

The NHS social studies department offers World History, Contemporary United States History, Government, Psychology, Economics, and Sociology. Geography and Current Events are also offered as electives. Students can choose to take honors and AP courses (Honors World History, AP United States History, AP Government, and AP Psychology) to prepare themselves for college and earn college credit while in high school. Courses are also offered in the Ag Academy and the Health Sciences Academy.

## SOCIAL STUDIES

### World History— 1400 to Present

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 2033, 2034
- ⇒ **Grade Levels:** 10
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This class is required for 10th grade and covers the period of human history from 1400—approximately the European Renaissance—to the present. The student will concentrate on the economic, political, civic, geographic, and cultural factors or events that dominated and shaped countries in Asia, Europe, Africa and the Americas. Resources will include multi-media software, primary sources and secondary reference materials. Performance will be assessed through various methods: individual research activities, class projects, written assignments and exams.

### Honors World History— 1400 to Present

---

*\*Weighted Course*

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 20381, 20382
- ⇒ **Grade Levels:** 10
- ⇒ **Pre-Requisites:** Grade of C or higher in last honors level math and/or English class. Grade of A in last general math and/or English class. -Tier 1 Reader.
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This course covers the economic, political, civic, geographic, and cultural factors of this time period in more depth and at a faster pace than World History 1400 to the Present course. More emphasis will be placed on primary source analysis and developing writing skills. This course is a good precursor to the Advanced Placement United States History course.

[Return to Course Guide Navigation](#)

### Health Science World History – 1400 to Present

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 2035, 2036
- ⇒ **Grade Levels:** 10
- ⇒ **Pre-Requisites:** Application Required
- ⇒ **Pathway:** Health Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** HOSA

**Description:** This course covers the period of human history from 1400—approximately the European Renaissance—to the present. The student will concentrate on the economic, political, civic, geographic, and cultural factors or events that dominated and shaped countries in Asia, Europe, Africa and the Americas. Resources will include multi-media software, primary sources and secondary reference materials. Performance will be assessed through various methods: individual research activities, class projects, written assignments and exams. This course is taught through the lens of health science with an emphasis on events and people important to the development of the modern health sciences.

### Agriculture World History— 1400 to Present

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 2031, 2032
- ⇒ **Grade Levels:** 10
- ⇒ **Pre-Requisites:** Part of Ag Pathway
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This class covers the period of human history from 1400—approximately the European Renaissance—to the present. There is a concentration on the economic, political, civic, geographic, and cultural factors or events that dominated and shaped countries in Asia, Europe, Africa and the Americas through the lens of Ag. Resources will

include multimedia software, primary sources and secondary reference materials. Performance is assessed through: individual research activities, class projects, written assignments and exams.

### Contemporary U. S. History

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 2055, 2056
- ⇒ **Grade Levels:** 11
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This class is required for 11th grade. The course will describe the growth of the United States as a world power in the 20th century. The student will examine the events, ideas and personalities that drew the United States—already an economic giant—to assume political leadership in the modern world and how U.S. superpower status shaped its contemporary social and economic fabric. Resources will include multi-media software, primary sources, and secondary reference materials. Performance will be assessed through class projects, media reviews, written assignments and traditional exams.

### College U.S. History (Hutch CC)

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** HI101 (In-Person at Newton High), 7687 (Online)
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** Hutch CC Tuition
- ⇒ **Dual Credit Available:** Yes— Hutch CC
- ⇒ **Clubs:** None

**Description:** Economic, political, social and intellectual development of the United States to the end of the Civil War with emphasis on development and decline of slavery, political parties, Indian policy, international relations and individuals responsible for the policies.

## SOCIAL STUDIES (Cont.)

### AP United States History

*\*Weighted Course*

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 2073, 2074
- ⇒ **Grade Levels:** 11
- ⇒ **Pre-Requisites:** Grade of C or higher in last honors level math and/or English class.-Grade of A in last general math and/or English class. -Tier 1 Reader.
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes via the AP test.
- ⇒ **Clubs:** None

**Description:** This course is designed for students who want the challenge of an integrated college level US History course. Students are introduced to historiography, authors and methods of US History. Extensive use is made of both primary and secondary source materials with an objective of developing each student's interpretive and analytical skills. An extensive amount of outside reading and writing is required. Students may elect to take a College Board AP History exam at the conclusion of their senior year.

### Agriculture- Contemporary U. S. History

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 2057, 2058
- ⇒ **Grade Levels:** 11
- ⇒ **Pre-Requisites:** Part of Ag Pathway
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This class is required for 11th grade. The course will describe the growth of the United States as a world power in the 20th century. The student will examine the events, ideas and personalities that drew the United States—already an economic giant—to assume political leadership in the modern world and how U.S. superpower status shaped its contemporary social and economic fabric through the lens of Ag. Resources will include multi-media software, primary sources, and secondary reference

[Return to Course Guide Navigation](#)

materials. Performance will be assessed through class projects, media reviews, written assignments and traditional exams.

### US History– Team Taught

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 9041, 9042
- ⇒ **Grade Levels:** 11
- ⇒ **Pre-Requisites:** IEP Assigned and Teacher Approval
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This class will meet the 11th grade Contemporary U. S. History requirement. The course will describe the growth of the United States as a world power in the 20th century. The student will examine the events, ideas and personalities that drew the United States—already an economic giant—to assume political leadership in the modern world and how U.S. superpower status shaped its contemporary social and economic fabric. Resources will include multi-media software, primary sources, and secondary reference materials. Performance will be assessed through class projects, media reviews, written assignments and traditional exams. Team Taught U.S. History has a slightly modified curriculum for students that read and/or write close to, but below grade level. Students in this class typically benefit from a smaller classroom environment and need more intensive support. This course is by teacher recommendation only.

### Psychology

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 21001
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This course will survey the scientific principles of mental processes and human behavior. Areas of study will include neuroscience, human development, social psychology, sensation, perception, learning, memory, thinking, stress, and psychological disorders. In

addition, the student will review the historical development of psychology and the fundamentals of research.

### AP Psychology

*\*Weighted Course*

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 21021
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Grade of C or higher in last honors level math and/or English class.-Grade of A in last general math and/or English class. -Tier 1 Reader.
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Possible via the AP Test (Cost Applies).
- ⇒ **Clubs:** None

**Description:** This course introduces students to the systematic and scientific study of behavior and mental processes of human beings and animals. Students are exposed to the psychological facts, principles, and phenomena associated with the major subfields within psychology. They also learn about the methods psychologists use in their science and practice. This course follows the College Board curriculum for AP Psychology closely and assessments and projects are designed to prepare students to take the AP exam in May. (Students may speak with the instructor regarding another possible way of earning college credit through this course and Hutch CC).

### College Psychology (Hutch CC)

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** PS101 (In-Person at Newton High), 7623 (Online)
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** Hutch CC Tuition
- ⇒ **Dual Credit Available:** Yes– Hutch CC
- ⇒ **Clubs:** None

**Description:** A survey of the fundamental principles of behavior including physiological, perceptual, historical, methodological, learning, memory, development, motivational, emotional, social and applied perspectives.



## SOCIAL STUDIES (Cont.)

### Sociology

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 21101
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** In this course students will study the concepts of socialization, social interaction, social organization, cultural and social change, social institutions and social problems. In short, while psychology is the study of the individual, sociology is the study of society and all it involves. Evaluations consist of objective and/or subjective exams, critical thinking through civil discourse and writing, as well as interviews with staff, students, and more.

### College Sociology (Hutch CC)

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 7624 (Online)
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** Hutch CC Tuition
- ⇒ **Dual Credit Available:** Yes– Hutch CC
- ⇒ **Clubs:** None

**Description:** Development and interaction of the individual in society with consideration of the culture, structures, functions of societies, social groups and institutions with emphasis on social interaction and its relation to personality and human action.

### Sociology– AG Academy

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 21103
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** Application
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** In this course students will study the concepts of socialization, social

interaction, social organization, cultural and social change, social institutions and social problems through a lens of agriculture. Evaluation consists of objective and/or subjective exams.

### Economics

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 21201
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Economics is a social science concerned with the problems of using and administering scarce resources, in order to attain the greatest or maximum fulfillment of society's unlimited wants. Economics is concerned with "doing the best with what we have." Students will investigate: a) economics history and background; b) economic science; c) the study of the macro system of economic growth; d) the market mechanism, or microeconomics; e) international economics.

### American Government

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 20801
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This class is required for graduation. It covers the development of government from the pre-Greek period to modern governments. The major emphasis is on the American governmental system. Students have the opportunity to complete individual projects. Exams are both objective and subjective.

### AP Government & Politics

*\*Weighted Course*

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 20811, 20812
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** Grade of B or higher in last honors level math and/or English class. -Grade of A in last general math and/or English class. -Tier 1 Reader.
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** AP Test (Optional)
- ⇒ **Dual Credit Available:** Yes via the AP Test
- ⇒ **Clubs:** None

**Description:** This is an Advanced Placement course that meets rigorous College Board standards. The AP United States Government and Politics course will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also emphasizes the various institutions, groups, beliefs, and ideas that constitute

### American Government (Hutch CC)

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 7622 (Online)
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** Hutch CC Tuition
- ⇒ **Dual Credit Available:** Yes– Hutch CC
- ⇒ **Clubs:** None

**Description:** Even though American government touches every aspect of Americans' lives, few students understand how American government and politics work or how citizens can engage their own political system. Explore the creation and development of the American political system, the Constitution, civil liberties, and civil rights; the nature of American politics and political participation, including political parties, elections, interest groups, and media; the structure of political institutions, namely Congress, the presidency, and the judiciary; and the development of public policy. Throughout the course, learn about your own political identity, observe how government actually works, and have important civic conversations.

## SOCIAL STUDIES (Cont.)

### Agriculture- Government

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 20822
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** Application Required
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This class is required for graduation. It covers the development of government from pre-Greek to modern governments through the lens of Ag. The major emphasis is on the American governmental system. Students have the opportunity to complete individual projects. Exams are both objective and subjective.

### World Geography

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 2001
- ⇒ **Grade Levels:** 9, 10
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** Students will examine the relationships among people, places, and environments that result in patterns on the Earth's surface. Students will use the tools and methods of geography to study the principal regions of the world. In addition, students will also describe the influence of geography on events of the past and present, analyze how location impacts economic activities in different economic systems throughout the world, compare how components of culture shape the characteristics of regions, and analyze the impact of technology and human modifications on the physical environment. For elective credit.

### Current Events

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 2180
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Students will examine noteworthy political, social, and economic topics of current interest. The political and historical backgrounds of many of the issues will be researched and analyzed in more detail. There will be no textbook but course material will be drawn from newspapers, news magazines, the electronic media, scholarly publications and the Internet. Course work will entail an additional amount of reading and writing. For elective credit.



## SPECIAL EDUCATION

---

The purpose of Special Education is to provide specialized instruction and support for students who are identified as having an Individualized Education Plan (IEP), meeting the unique needs for each child in their least restrictive environment. At Newton High School, there are a wide array of supports and programs that help support each student.

Newton High School offers core academic courses through the interrelated special education model, most commonly meeting the needs of students on a traditional four year path towards graduation. Within the interrelated special education model, there ranges of academic modification and accommodation within specialized courses, as well as supports in some of the general education classrooms, allowing each student to continue making progress towards their academic and post-secondary goals.

Newton High School also has four different categorical programs for special education including: Severe/ Multiple Disabilities (SMD), Intellectual and Developmental Disabilities (IDD), Structured Learning (SL), and Emotional Disturbance (ED). Each of these programs have self-contained aspects and offer a mix of academic, work study, and vocational focuses, to help ensure that their students are able to achieve their academic and post-secondary goals. Students in the first three of these categorical programs are more commonly on non-traditional graduation paths that go beyond the traditional four years of high school.

## Speech

---

- ⇒ **Credit:** 1.0 0.5
- ⇒ **Course Number(s):** 9125
- ⇒ **Grade Levels:** 9,10,11,12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** In a small class setting, students will learn to communicate effectively using verbal, written, and visual elements appropriately. Communication will be studied and time given for students to practice listening as well as speaking skills. Speeches given will include autobiographical, informative, and persuasive speeches. Speech organization, outlines, research, and delivery will be included. This class is for students who have an Individualized Education Plan and will meet the communication requirement for graduation.

## ENGLISH

### Multi--Level English

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 90111, 90122
- ⇒ **Grade Levels:** 9,10,11,12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** The course is designed to enhance student's reading, grammar, vocabulary, speaking, and writing abilities. This is done through reading various books, projects, and learning grammar mechanics. This class is designed for students with a 6th grade and below reading comprehension level, those who struggle with following multi-step directions, or those who need curriculum taught at a slower pace.

## English 9

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 9005, 9006
- ⇒ **Grade Levels:** 9
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** English 9 is a course that meets part of the graduation requirements for ELA. This course will cover content addressed in the English Language Arts standards - reading, writing, and listening. English 9 has a modified curriculum for students that read and/or write below grade level, but at or above 6th grade level. Students in this class typically benefit from a smaller classroom environment and need more intensive support. This course is by teacher recommendation only, and it should only be for students that have an individualized education plan.

### English 10

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 9007, 9008

**Description:** English 10 is a course that meets part of the graduation requirements for ELA. This course will cover content addressed in the English Language Arts standards - reading, writing, and listening. English 10 has a modified curriculum for students that read and/or write below grade level, but at or above 6th grade level. Students in this class typically benefit from a smaller classroom environment and need more intensive support. This course is by teacher recommendation only, and it should only be for students that have an individualized education plan.

## English 11

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 9011, 9012
- ⇒ **Grade Levels:** 11
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** English 11 is a course that meets part of the graduation requirements for ELA. This course will cover content addressed in the English Language Arts standards - reading, writing, and listening. English 11 has a modified curriculum for students that read and/or write below grade level, but at or above 6th grade level. Students in this class typically benefit from a smaller classroom environment and need more intensive support. This course is by teacher recommendation only, and it should only be for students that have an individualized education plan.

### English 12

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 9013, 9014
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** English 12 is a course that meets part of the graduation requirements for ELA. This course will cover content addressed in the English Language Arts standards - reading, writing, and listening. English 12 has a modified curriculum for students that read and/or write below grade level, but at or above 6th grade level. Students in this class typically benefit from a smaller classroom environment and need more intensive support. This course is by teacher recommendation only, and it should only be for students that have an individualized education plan.

## English

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 9015, 9016
- ⇒ **Grade Levels:** 9,10,11,12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** SCED English is a course that meets part of the graduation requirements for students in grades 9-12. The course curriculum is aligned with the English Language Arts Standards. This course typically has smaller class sizes and focuses on behavior and social/emotional development. This course is specifically for students in the Self-Contained Emotional Disability program. Students must be in the SCED program to be enrolled in this course.

## MATH

### Consumer Math 1

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 90181, 90182
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** Students are only eligible for this course if they have an Individualized Education Plan. This course covers elementary math and focusing on money, decimals, and understanding numbers.

### Fundamental Math 1

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 90811, 90812
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** Students are required to be on an IEP and must be identified as having a need for a special education math course. This class will be geared towards students with a 2nd-grade math level.

[Return to Course Guide Navigation](#)

## Fundamental Math 2

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 90813, 90814
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** Students are required to be on an IEP and must be identified as having a need for a special education math course. This class will be geared towards students with a 3rd-grade math level.

### Fundamental Math 3

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 90815, 90816
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** Students are required to be on an IEP and must be identified as having a need for a special education math course. This class will be geared towards students with a 4th-grade math level.

### Pre-Algebra I

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 90821, 90822
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** This course focuses on progression from basic math concepts/operations to algebraic elements of variables, order of operations, symbols, and rules. The course content develops familiarity with, and ability to solve and apply, linear equations. The course also includes introduction to basic geometry. The goal is to help students be better prepared to understand and appreciate the importance of math for their lives. Students are only eligible for this course if they have an Individualized Education Plan.

## Pre-Algebra 2

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 90823, 90824
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** This class will continue to build on Pre-Algebra 1's focus on the basic components of algebra, on improving knowledge and use of math facts, expanding math fluency, and developing familiarity with concepts. Ideally it is an expansion of Pre-Algebra 1 to include broader applications, systems, and preparation for transition to gen ed math. Students are only eligible for this course if they have an Individualized Education Plan.

### Applied Math

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 9065, 9066
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** SCED Applied Math is a course that meets part of the graduation requirements for students in grades 9-12. The course curriculum is aligned with the Math standards and is an applied math course that includes Pre-Algebra, Algebra and Consumer Math. This course typically has smaller class sizes and focuses on behavior and social/emotional development. This course is specifically for students in the Self-Contained Emotional Disability program. Students must be in the SCED program to be enrolled in this course.

# SCIENCE

## Science

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 9031, 9032
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** This Science class meets the requirement for graduation, providing students with a fundamental knowledge of science basics. The key concepts found in earth science, physical science, or life science may be covered. Topics will be rotated to ensure a well rounded science experience for students. Students are only eligible for this course if they have an Individualized Education Plan. This course is designed for students with individual reading levels below grade level, those who have difficulty with multi-step instructions, or those who need a slower pace of instruction.

## Food Science

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 90911, 90912
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** Food Science includes units studying the food science lab, chemistry fundamentals, the science of nutrition, the chemistry of food and the microbiology of food processing. Students are only eligible for this elective course if they have an Individualized Educational Plan.

## Science

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 9035, 9036
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** SCED Science is a course that meets part of the graduation requirements for students in grades 9-12.

[Return to Course Guide Navigation](#)

Students must be in the SCED program to be enrolled in this course. The course curriculum is aligned with the Science standards and is a general science course that includes Life Science, Earth Science, Physical Science and Biology. This course typically has smaller class sizes and focuses on behavior and social/emotional development. This course is specifically for students in the Self-Contained Emotional Disability program.

# SOCIAL STUDIES

## US History

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 9045, 9046
- ⇒ **Grade Levels:** 9,10,11,12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** SCED US History is a course that meets part of the graduation requirements for students in grade 11. The course curriculum is aligned with the Social Science Standards. This course typically has smaller class sizes and focuses on behavior and social/emotional development. This course is specifically for students in the Self-Contained Emotional Disability program. Students must be in the SCED program to be enrolled in this course. This course begins with the first Americans through terrorism in the US.

## US History

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 9041, 9042
- ⇒ **Grade Levels:** 11
- ⇒ **Pre-Requisites:** IEP Assigned and Teacher Approval
- ⇒ **Clubs:** None

**Description:** Students are only eligible for this course if they have an Individualized Education Plan. This course is designed for students who have difficulty following multi-step instructions or have an independent reading level below grade level or require a slower paced curriculum. The following periods of History will be studied:

Course is split into 2 Semesters. The course will describe the growth of the United States from the 20th century until present. Events to be examined: Industrial Revolution, World War I, Roaring Twenties, Great Depression, World War II, Cold War, Civil Rights, Middle East Conflict.

## World History

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 9047, 9048
- ⇒ **Grade Levels:** 10
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** SCED World History is a course that meets part of the graduation requirements for students in grade 10. The course curriculum is aligned with the Social Science Standards. This course typically has smaller class sizes and focuses on behavior and social/emotional development. This course is specifically for students in the Self-Contained Emotional Disability program. Students must be in the SCED program to be enrolled in this course. This course begins with the start of civilization through terrorism around the world.

## World History

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 9027, 9028
- ⇒ **Grade Levels:** 10
- ⇒ **Pre-Requisites:** IEP Assigned and Teacher Approval
- ⇒ **Clubs:** None

**Description:** Students are only eligible for this course if they have an Individualized Education Plan. This course is designed for students who have difficulty following multi-step instructions or have an independent reading level below grade level or require a slower paced curriculum. The following periods of History will be studied: Renaissance, Reformation, Age of Exploration, Age of Absolutism, Industrial Revolution, Nationalism and Imperialism, World War I and II, the Cold War. Course is split into 2 Semesters.

## SOCIAL STUDIES (Cont.)

### Government

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 9050
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** Students are only eligible for this course if they have an Individualized Education Plan. This course is designed for students who have difficulty following multi-step instructions or have an independent reading level below grade level or require a slower paced curriculum. The student will learn about the role of the citizen in society, the principles of our Constitution, the structure and function of our government, the importance of human and civil rights, and state and local Government. Resources will include online videos, online text materials, and class discussions.

### Psychology

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 9056
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** Students are only eligible for this course if they have an Individualized Education Plan. This course is designed for students who have difficulty following multi-step instructions or have an independent reading level below grade level or require a slower paced curriculum. The course is designed to provide students with a study of the basic concepts, principles, and methods important to the study of psychology. The following units will be studied: Methods and Social Psychology, Brain, Sensation and Perception, Learning and Memory, and Development.

### Psychology

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 90491
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Clubs:** None

**Description:** SCED Psychology a course that meets part of the graduation requirements for students in grade 12. The course curriculum is aligned with the Social Science Standards. This course typically has smaller class sizes and focuses on behavior and social/emotional development. This course is specifically for students in the Self-Contained Emotional Disability program. Students must be in the SCED program to be enrolled in this course.

### Government

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 9055
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** SCED Government is a course that meets part of the graduation requirements for students in grade 12. The course curriculum is aligned with the Social Science Standards. This course typically has smaller class sizes and focuses on behavior and social/emotional development. This course is specifically for students in the Self-Contained Emotional Disability program. Students must be in the SCED program to be enrolled in this course.

### Study Skills

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 9151, 9152
- ⇒ **Grade Levels:** 9,10,11,12
- ⇒ **Pre-Requisites:** IEP Assigned
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Study Skills focuses on basic skills that will enable each participant to be a successful student. Topics covered may include active listening, reading strategies, note-taking, test taking, writing, improving memory, time management, and goal setting.

**\* Additional elective and categorical Special Education courses are available. Please reach out to your student's case manager or the NHS Special Education Department Chair for more information.**



# Industrial Career and Technical Education (CTE)

---

College, Tech School, or career bound? Looking to expand your knowledge in your favorite hobby? Or just need to learn to work on your own stuff? Then courses in the industrial pathways are the place for you.

The Newton High School Industrial Career & Technical Education department offers 9 career pathways to help prepare you to become college and career ready for the future. There are many opportunities for you to obtain college credit, shadow a mentor in a career field and earn industry certifications. The goal is to prepare you for the future by attending CTE courses at Newton High School.

On top of gaining excellent, hands-on classroom experiences that you can find no where else, you can also receive free dual-credit for some courses and sign up for job shadows or internships aligned with your career interests!

## Pathways

- Animal Science
- Comprehensive Ag
- Construction & Design
- Engineering
- Manufacturing—Machining
- Manufacturing—Welding
- Mobile Equipment Maintenance—Auto
- Plant Systems
- Power, Structural, & Technical Systems



# AGRICULTURE

## Adv. Modern Ag Mechanics

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8183, 8184
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Intro to Ag Mechanics, Pre-Voc Welding, Small Engines, By Approval Only
- ⇒ **Pathway(s):** Power, Structural & Technical Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This is an upper level course with emphasis on career skills in mechanics and engineering. Instruction will focus on extending skills developed in previous Ag Mechanics classes. Supervised ag experiences (SAE) and FFA leadership activities are integral components of this course. These provide students with practical application. Students are expected to attend at least one career development event (CDE) while in this class.

## Ag Internship

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8135, 8136
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** Three previous courses in at least one Ag Pathway.
- ⇒ **Pathway(s):** Animal Science, Agriculture Science, Power, Structural & Technical Systems, Plant Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This course is the on-the-job element of the Ag Academy as well as the Ag pathways. This includes working in an approved ag-related area for approximately 5 hours per week with a minimum of 90 hours per semester for one credit. Ten hours per week with a minimum of 180 hours per semester are required for two credits.

## Ag Power Mechanics

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8187, 8188
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Modern Ag Mechanics
- ⇒ **Pathway(s):** Power, Structural & Technical Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** Ag Power Mechanics will give the student hands on opportunities to repair and maintain internal combustion engines, electrical, and hydraulic systems. Scientific, mathematical, economic, and technical principles are reinforced in this course, as are communication and critical thinking skills. Work-based learning strategies appropriate for this course are field trips and activities in the school lab facility. Supervised agricultural experience SAE programs and FFA leadership activities are integral components of the course and provide many opportunities for practical application of instructional competencies.

## Agribusiness

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8123, 8124
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Agriscience and/or Plant & Animal
- ⇒ **Pathway(s):** Animal Science, Agriculture Science, Power, Structural & Technical Systems, Plant Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** Students in this course study careers in the agri-business industry which include, but are not limited to, careers in communications, displaying, advertising, physical distribution, selling, and transportation. Skills are developed in recordkeeping, management, economics, and computer orientation as they relate to agri-business. Leadership is developed through participation in the

FFA organization. Students are encouraged to have a crop, livestock, Ag Mechanics or Ag Science program or be employed by an agribusiness firm in the community.

## Ag Equipment Construction

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8185, 8186
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Pre Vocational Welding & Modern Ag Mechanics
- ⇒ **Pathway(s):** Power, Structural, & Technical Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This class is designed for juniors and seniors who want to study the design and operation of Ag equipment. Students apply mechanical skills to the design and construction of Ag equipment. Students will learn blueprint reading and technical reading for construction and assembling Ag equipment. Supervised ag experiences (SAE) and FFA leadership activities are integral to this course. Students are expected to attend at least one career development event (CDE) while in the class.

## Agriscience

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8101, 8102
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This course will cover the fundamental knowledge of animals, plants, and ag careers. Classroom learning will be enhanced by the on-site outdoor lab, greenhouse, and shop. Supervised ag experiences (SAE) and FFA leadership activities are integral to this course. Students are expected to attend at least one career development event (CDE) while in the class.

# AGRICULTURE

## Animal Science

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 81531, 81532
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Agriscience
- ⇒ **Pathway(s):** Animal Science, Agriculture Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** FFA

**Description:** This course will use a practical approach to the study of animals. It will integrate the concepts of biology with the field of agriculture. Animal Science will broaden a student's view and understanding of animal and biological science principles of focusing on daily life applications. Learning is enhanced through the on-site hands learning lab. Science and vocational outcomes will be incorporated into the course. Students will be introduced to the FFA organization, have the opportunity to become an active member and compete in related CDEs (career development experience) and are required to develop (supervised agricultural experience) programs.

Eligible for Regents Qualified Admissions – Livestock Management Jr. & Sr. concurrent enrollment with Hutch CC – NO TUITION This course MAY count as one of the required science credits for graduation. A student may select Animal Science, Horticulture I or Horticulture II as one of the three science credits.

## Biotechnology in Ag

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8125, 8126
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Plant and Animal Science and Chemistry. AG ACADEMY ONLY
- ⇒ **Pathway(s):** Animal Science, Agriculture Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** Biotechnology in Agriculture is a class within the Ag Academy that focuses on many areas of industry, providing students with a background on the regulatory issues and agencies involved including the USDA and FDA. The course will also analyze ethical, legal, social and cultural issues regarding the use of biotechnology in agriculture. Lab work will be stressed in the course. Students will develop an understanding of lab operations including record keeping, equipment operations and management, as well as the proper handling and use of biological materials. Labs procedures focusing on the isolation and purification of DNA and RNA, analysis of genetic samples using electrophoresis and PCR technologies, the production and use of antibodies and protein detections, as well as the importance of microbe detections in lab and industry settings, will all be included. This course is part of the Ag Academy science progression This course does count for science credit. Juniors in the Ag Academy get preference for this class. All other Juniors are accepted when space is available.

## Horticulture 1

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8191, 8192
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Agriscience or Plant and Animal Science
- ⇒ **Pathway(s):** Ag Sciences, Plant Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This course provides students with an opportunity to study greenhouse management, landscaping, turf management, and fruit and vegetable production. Students will propagate, grow bedding plants, operate the school greenhouse, and complete a landscape design. Some introduction to forestry and environmental careers is included.

Students will participate in the FFA activities including Public Speaking, Judging, and Problem Solving. If a student successfully completes Biology and Chemistry or Life Science and Integrated Science 1, they may select Horticulture 1, Horticulture 2 or Animal Science for their third science credit.

## Horticulture 2

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8193, 8194
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Horticulture 1
- ⇒ **Pathway(s):** Plant Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This course is designed to provide students with an overview of the Horticulture industry. Emphasis is placed on information and skills needed in Horticulture Services, Landscape Contracting, Certified Nursery Professional, and Retail Florist. Students will be prepared to enter fields in the green industry. Topics of study include: Greenhouse management, recreational and turf grass management, basic florist design, pest control, floriculture, and marketing. Scientific, mathematical, economic, and technical principles are reinforced in this course, as are communication and critical thinking skills. Work-based learning strategies for this course are field trips and activities in the school greenhouse or lab facility. Supervised agricultural experience programs (SAE) and FFA leadership activities are integral components of the course and provide many opportunities for practical application of instructional competencies. Class may be taken multiple years by Teacher Approval. If a student successfully completes Biology and Chemistry or Life Science and Integrated Science 1, they may select Horticulture 1, Horticulture 2 or Animal Science for their third science credit.

## AGRICULTURE (Cont.)

### Introduction to Ag Mechanics

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8181, 8182
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Power, Structural & Technical Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This course of study will develop basic skills in Agricultural Mechanics. This will include Leadership; Power and Hand Tools; Homestead Electricity; Safety and Career Orientation. Structures, concrete, and plumbing. Leadership and Personal Development skills are taught through the integration of FFA Career development skills and SAE (supervised agricultural experience) activities. This course cannot be repeated for credit.

### Plant & Animal Science

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 85121, 85122
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Agricultural Sciences
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This course provides content related to both animal production and plant production, providing comprehensive coverage of the production functions of the agricultural industry. Topics such as care and management of farm animals, crop production and harvesting, plant and animal insect and disease control, efficient resource management and farm management and food processing. FFA membership is strongly encouraged. Students will participate in FFA activities such as Agronomy, Livestock, and Meat Evaluation. This course is good preparation for the Animal Science course.

[Return to Course Guide Navigation](#)

### Pre-Vocational Ag Welding

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8141, 8142
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Agriscience and/or Modern Ag Mech
- ⇒ **Pathway(s):** Power, Structural & Technical Systems
- ⇒ **Course Fees:** \$25.00
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This course is designed for students wanting to explore the career of professional welder. Pre-Voc Ag Welding is competency-based (achieve skill levels at the individual's pace) covering shop safety, arc welding, MIG welding and Plasma Arc and CNC Plasma Cutting. Students will be introduced to the FFA organization, have the opportunity to become an active member and compete in related CDEs and be encouraged to develop SAEs.

### Small Engines

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8171, 8172
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Pre-Vocational Welding
- ⇒ **Pathway(s):** Power, Structural, & Technical Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** In this course, students will develop basic topics covering theory, maintenance, tear down and reassembly, troubleshooting and all major components of the basic systems of small gasoline engines. Other topics covered include tool and equipment identification, safety, and use. Leadership and personal development skills are taught through the integration of FFA career development skills and SAE activities.

### Vet Tech/Animal Health

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 81541, 81542
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Agriscience and Animal Science
- ⇒ **Pathway(s):** Animal Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This course takes an in depth look into animal health. Students will be exposed to a number of careers in animal health, including veterinarians, vet technicians, microbiologists, pathologists, geneticists, pharmacists, food scientists and others. Students will be exposed to many different cells and tissues from a variety of species. The course will cover anatomy and physiology, epidemiology. Laboratory activities will include live animal health checks and vaccination, artificial insemination, stitch work. Students will be exposed to large and small animal species.

### Horse Management & Functions

---

- ⇒ **Credit:** 1.0 (elective)
- ⇒ **Course Number(s):** 81535, 81536
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:**
- ⇒ **Pathway(s):** Animal Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** Horse Management and Functions is an application level course in the animal science pathway. In this course students take an in-depth look into the horse industry. They will learn about horse breeds, anatomy, health, nutrition, facilities, and equitation/training. FFA membership is strongly encouraged. Students will participate in FFA events such as horse judging.

# CONSTRUCTION & DESIGN

## Intro to Industrial Tech

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 70105, 70106
- ⇒ **Grade Levels:** 9, 10
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Construction & Design, Manufacturing– Welding, Manufacturing– Welding
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Introduction to Industrial Technology is designed to introduce students to a variety of skills related to materials and processes. The module based course will cover the basic concepts in sketching, measurement, computer aided design, machining, welding, and wood-working, while learning to use digital fabrication tools such as 3D printers, CNC routers, and Laser engravers/cutters. Project management tools will be utilized to help students learn and practice time management skills.

## Laser Works

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 7041, 7042
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** By Application
- ⇒ **Pathway(s):** None
- ⇒ **Course Fees:** \$25.00
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Designed to be a student-led manufacturing business. Students will utilize the design process throughout, and obtain understanding and proficiency within various design softwares in the development of products with the Laser engraver and CNC equipment. Students will promote and sell items for profit to the community.

## Woodworking 1

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 7011, 7012
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Intro to Industrial Tech
- ⇒ **Pathway(s):** Construction & Design
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** SkillsUSA - Cabinetmaking

**Description:** An introduction to wood working and the shop setting. Students will utilize a variety of hand and electrical tools. Students will learn how to properly plan a project by selecting lumber, constructing the project, and finish to their liking. In this course students will get to use the CNC machine and construction techniques. This is an introduction course to Woods II.

## Woodworking 2

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 7021, 7022
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Intro to Industrial Tech and Woods I
- ⇒ **Pathway(s):** Construction & Design
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** SkillsUSA - Cabinetmaking

**Description:** An application level course designed to allow students to broaden their knowledge and understanding of the woodworking industry. Students will demonstrate knowledge learned from Woodworking I and utilize what they have learned in a shop setting. Students will design from start to finish a project of their own choosing with instructor clearance, or orders that come into the course. Students will gain optimal shop experience with a variety of hands-on learning opportunities through the use of traditional equipment, as well as CNC.

# Automotive Technology

## Automotive Restoration

(Not Offered 24/25)

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 82005
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Mobile Equipment Maintenance
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Skills/USA VICA

**Description:** This course gives an overview of the transportation industry skills and career opportunities. Students will develop hands-on skills related to automotive collision repair, automotive restoration, and automotive technology. This course is recommended for students interested in a career in the automotive industry, and highly suggested to students interested in automotive restoration or collision repair.

## Automotive Technology I

- ⇒ **Credit:** 2.0
- ⇒ **Course Number(s):** 82011, 82012, 82013, 82014
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Hutch CC Application & References, By approval Only
- ⇒ **Pathway(s):** Mobile Equipment Maintenance
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes– Hutch CC
- ⇒ **Clubs:** Skills/USA VICA

**Description:** Must enroll concurrently in 82011, 82012, 82013, and 82014. These classes also place students in enrollment at Hutchinson Community College-no cost. Courses 82011-82014 will prepare students with the following skills:

1. Shop safety and tool usage.
2. Perform base engine mechanical repair, testing and maintenance on various types of engines.

[Return to Course Guide Navigation](#)

3. Inspect and diagnose various engine performance systems.
4. Knowledge of the basic electrical/electronic system and the equipment needed to diagnose and service the basic electrical systems.

## Automotive Technology II

- ⇒ **Credit:** 2.0
- ⇒ **Course Number(s):** 82111, 82112, 82113, 82114
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Auto Tech I with 70% or higher; Application for Program and HCC, References, and Teacher Approval Required.
- ⇒ **Pathway(s):** Mobile Equipment Maintenance
- ⇒ **Course Fees:** \$15
- ⇒ **Dual Credit Available:** Yes– Hutch CC
- ⇒ **Clubs:** Skills/USA VICA

**Description:** Must enroll concurrently in 82111, 82112, 82113, and 82114. These classes also place students in enrollment at Hutchinson Community College-no cost. Courses 82111-82114 have an emphasis placed on advance training and will prepare students with the following skills:

1. Shop safety and tool usage
2. Inspection, diagnostics and servicing of steering and suspension systems; including checking and adjusting alignment.
3. Examination, identification and repair of braking systems; including the hydraulic and the anti-lock braking systems.
4. Comprehensive review and maintenance of drivetrain components.

## Automotive Technology III-Drivetrain Technology

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 82151-82152
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** Auto Tech I with 70% or higher; OR Completion or concurrent enrollment Auto Tech II ; Application for Program and HCC, References, and Teacher Approval Required.
- ⇒ **Pathway(s):** Mobile Equipment Maintenance
- ⇒ **Course Fees:** \$15
- ⇒ **Dual Credit Available:** Yes– Hutch CC
- ⇒ **Clubs:** Skills/USA VICA

**Description:** This is a comprehensive technical course designed to teach students the hands-on skills involved in maintenance, diagnosis, and repair of the drivetrain components including; transmissions, differentials, axles, and other components. This class will concentrate on lab activities and projects that will increase student understanding. This class also places students in enrollment at Hutchinson Community College-no cost.

## Automotive Technology III-

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 82161-82162
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** Auto Tech I with 70% or higher; OR Completion or concurrent enrollment Auto Tech II ; Application for Program and HCC, References, and Teacher Approval Required.
- ⇒ **Pathway(s):** Mobile Equipment Maintenance
- ⇒ **Course Fees:** \$15
- ⇒ **Dual Credit Available:** Yes– Hutch CC
- ⇒ **Clubs:** Skills/USA VICA

**Description:** This is a comprehensive technical level course designed to provide students with the basic and advanced theory of operation, service, and repair of the heating, air conditioning, and vehicle cooling systems. This class will concentrate on lab activities and projects that will increase student understanding. This class also places students in enrollment at HCC -no cost.

## AUTOMOTIVE (CONT.)

### Consumer Auto Care

(Not Offered 24/25)

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 82007
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Mobile Equipment Maintenance
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This course provides students with the opportunity to learn practical car maintenance skills. They will attain basic skills and knowledge needed to own and maintain a vehicle. The students will learn what to consider when buying a car, shopping for car insurance, acquiring a title, etc.

## ENGINEERING

### Civil Engineering & Architecture

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 70615-70616
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Engineering & Applied Mathematics
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** SkillsUSA

**Description:** Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3-D architectural design software.

### Engineering Design & Development

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 70611, 70612
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Engineering Design or Principles of Engineering or Teacher Approval
- ⇒ **Pathway(s):** Engineering & Applied Mathematics
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** RailerRobotics, SkillsUSA

**Description:** The knowledge and skills students acquire throughout the Engineering program come together in Engineering Design and Development as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document the design process from problem identification to solution presentation.

### Engineering Design

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 7053-7054
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Engineering & Applied Mathematics
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** RailerRobotics, SkillsUSA

**Description:** Students will apply math, science, and engineering standards to hands-on projects. They will work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and document their work in an engineering notebook.

### Principles of Engineering

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 70551, 70552
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Engineering & Applied Mathematics
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** RailerRobotics, SkillsUSA

**Description:** Students will apply math, science, and engineering concepts to problems that challenge them to explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

### Intro to Industrial Tech

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 70105, 70106
- ⇒ **Grade Levels:** 9, 10
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Construction & Design, Manufacturing–Welding, Manufacturing–Welding
- ⇒ **Course Fees:** \$25.00
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Introduction to Industrial Technology is designed to introduce students to a variety of skills related to materials and processes. The course will cover the basic concepts in measurement, sketching, computer aided design, machining, and woodworking, while learning to use digital fabrication tools such as 3D printers, CNC routers, and Laser engravers/cutters. Project management tools will be utilized to help students learn and practice time management skills.

# MANUFACTURING - PRECISION MACHINING

## Computer-Aided Manufacturing

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 82441,82442
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application Required, Precision Machining and CNC Fundamentals I.
- ⇒ **Pathway(s):** Manufacturing - Machining
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes– Hutch CC
- ⇒ **Clubs:** SkillsUSA

**Description:** This is a comprehensive technical level course designed to instruct students in the knowledge and skills needed to perform computer-aided machining tasks.

## Principles of Precision Machining

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 82283, 82284
- ⇒ **Grade Levels:** 10
- ⇒ **Pre-Requisites:** By Application
- ⇒ **Pathway(s):** Manufacturing - Machining
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This course examines how parts are manufactured using conventional machining equipment such as lathes and mills. This class is a combination of hands-on and theory in producing products on precision manual equipment and then progress to the more advanced CNC machine tools in the production lab. This class is first in the progression toward college credit and the completion of the Precision Machining program.

## Precision Machining & CNC Fundamentals 1

- ⇒ **Credit:** 4.0
- ⇒ **Course Number(s):** 82291-82292-82293-82294-82295-82296-82297-82298
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** By Application
- ⇒ **Pathway(s):** Manufacturing - Machining
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** SkillsUSA

**Description:** Areas of study will include safety, bench work, measuring and layout, lathe work, milling drilling, grinding materials, blueprint reading, introduction to CNC and modern manufacturing methods. Selecting the proper materials and tools, planning the project sequence according to the blueprints or written specifications, and forming the metal product while holding accuracies to within thousandths of an inch are skills obtained in this class. The understanding of dimensions, units of measure and measuring instruments is necessary for proficiency in machine technology. Jr. & Sr. concurrent enrollment with Hutch CC – NO TUITION. Eligible for local Fine Arts credit. Qualifies for Math credit.

## Precision Machining & CNC Fundamentals 2

- ⇒ **Credit:** 4.0
- ⇒ **Course Number(s):** 82401-82402-82403-82404-82405-82506-82407-82408
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application & Precision Machining & CNC Fundamentals 1
- ⇒ **Pathway(s):** Manufacturing - Machining
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** SkillsUSA

**Description:** Emphasis will be placed on blueprint reading and related math skills. Instruction will be given on CNC (computer controlled machines), and SPC (statistical process control), a quality control system used in industry. This program will prepare students for direct entry into manufacturing or can also serve as recommendation for students wishing to pursue an engineering degree or other advanced technical training. Jr. and Sr. concurrent enrollment with Hutch CC – NO TUITION. Eligible for local Fine Arts credit. Qualifies for Math credit.

# WELDING TECHNOLOGY

## Welding Technology 1

- ⇒ **Credit:** 4.0
- ⇒ **Course Number(s):** 8301, 8302, 8303, 8304, 8305, 8306, 8307, 8308
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application, Interview, & Intro to Industrial Technology, 2.0 GPA or higher and good attendance
- ⇒ **Pathway(s):** Manufacturing - Welding
- ⇒ **Course Fees:** \$200.00/year
- ⇒ **Dual Credit Available:** Yes– Hutch CC
- ⇒ **Clubs:** SkillsUSA

**Description:** Welding I and II make up a two-year career preparatory program designed to place students directly into the welding industry. Students enroll concurrently as a Hutch CC (no tuition) student to receive college credit and potentially earn a certificate. Students enroll Monday through Friday for 3 hours per day. This comprehensive welding program covers courses in both the theory and practical applications of Stick, Mig, Tig, oxyacetylene cutting, and shop safety. Related areas that a student will complete in welding include air carbon arc gouging, plasma arc cutting, safe use of manufacturing equipment, shop math, and metallurgy. Positive work behaviors such as regular attendance, leadership, teamwork and communication skills will be emphasized. These and other work skills will be accomplished through the student's participation in the Skills USA Student Organization. Seniors who enroll in Welding I have the option of completing their second year through Hutch CC (Newton Center). Students are expected to provide their own work clothing and personal tools (see equipment list).

## Welding Technology 2

- ⇒ **Credit:** 4.0
- ⇒ **Course Number(s):** 8311, 8312, 8313, 8314, 8315, 8316, 8317, 8318
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application & Welding 1
- ⇒ **Pathway(s):** Manufacturing - Welding
- ⇒ **Course Fees:** \$200.00/year
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** SkillsUSA

**Description:** Welding II meets Monday through Friday for 3 hours per day and covers courses in Gas Metal Arc Welding (MIG), Gas Tungsten Arc Welding (TIG), blueprint reading, plasma arc cutting, pulse Mig welding, Computer Numerical Control cutting machine techniques, Metallurgy, and robotic welding operations. Students will demonstrate shop safety, positive work behaviors, communication skills and employment skills. Students will also gain experience on live welding projects. Jr. and Sr. concurrent enrollment with Hutch CC – NO TUITION. Qualifies for Math credit.

Hutch CC college Courses include: Welding Blueprint Reading, Shielded Metal Arc Welding II, Gas Metal Arc Welding II, Gas Tungsten Arc Welding II, Industrial Robotic Welding, and/or Flux Cored Arc Welding, Welding Inspection and Qualification. Total College Credits = 16

# AVIATION

## Drones

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 8197
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Application form and completion of Hutch CC course registration requirements.
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes– Hutch CC
- ⇒ **Clubs:** Skills/USA VICA

**Description:** Drones is a CTE pathway course that will set students up to pass the PART 107 - Small Unmanned Aircraft Systems test. Taught by certified pilots, the class will be conducted using Hutchinson Community College's Dragon Zone (similar to Newton School Canvas) and extensive hands-on training. Flights under the tutelage of the instructors will be conducted indoors and outside of the school campus on a daily basis. In addition, the class will also involve the use of video editing software skills and an understanding of basic marketing skills in order for students to have a solid grounding in today's competitive market.



# ELECTRICAL

## Electrical Tech 1

---

- ⇒ **Credit:** 4
- ⇒ **Course number:** 82501-82508
- ⇒ **Grade levels:** 11-12
- ⇒ **Pre-Requisites:** Intro to Industrial Technology
- ⇒ **Course Fees:** \$0
- ⇒ **Dual Credit Available:** Yes

**Description:** This course, Electrical Tech I is the first year program of a two-year career preparatory program designed to place students directly into the electrician industry. Students enroll concurrently as a Hutch CC (no tuition) student to receive college credit and potentially earn a certificate. Students enroll Monday through Friday for 3 hours per day. Students will complete Cert A courses on the Newton High campus and a hybrid session at HCC in Hutchinson with transportation provided. Students will complete courses in the comprehensive electrical program that covers courses in AC/DC circuits, Industrial Wiring, PLC, Electrical Maintenance, Industrial Fluid Power, Fundamentals of Motor Controls and Mechanical Maintenance Skills. Students could potentially enter into an apprenticeship program at the end of the spring semester and into the summer (between junior and senior year). Positive work behaviors such as regular attendance, leadership, teamwork and communica-

## Electrical Tech 2

---

- ⇒ **Credit:** 4
- ⇒ **Course number:** 82511-82518
- ⇒ **Grade levels:** 11-12
- ⇒ **Pre-Req:** Intro to Industrial Technology & Electrical Tech I
- ⇒ **Course Fees:** \$0
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** N/A

**Description:** Electrical Tech II is the second year program designed to place students directly into the electrician industry. Students enroll concurrently as a Hutch CC (no tuition) student to receive college credit and potentially earn a certificate. Students enroll Monday through Friday for 3 hours per day. Students will complete Cert B courses at the HCC campus with transportation provided. Students will complete courses in AC/DC circuits, Industrial Wiring, PLC, Electrical Maintenance, Variable Frequency Drives and Electric Motors, Industrial Fluid Power, Fundamental of Motor Controls and Technical Math. This course can potentially align for an apprenticeship with an electrical business. Positive work behaviors such as regular attendance, leadership, teamwork and communication skills will be emphasized.



## WORLD LANGUAGES

---

NHS students are fortunate to be able to choose from one to three languages: French, German, or Spanish, and students can take each language for up to four years. Taking a language at NHS gives students the opportunity to participate in clubs, honor societies, and travel, as well as experience music, film, celebrations, and food from around the world. We encourage our students to be global citizens and lifelong learners, as there are many economic, cognitive, social, and health benefits to becoming multilingual. More than half of the world speaks multiple languages, and nine out of 10 United States employers rely on employees with language skills other than English. We support students in obtaining the Seal of Biliteracy from the State of Kansas. (See more information under the Seal of Biliteracy).

# FRENCH

## French 1

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1501, 1502
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** French Club

**Description:** French 1 will provide the student with a general introduction to the French language: sound system, pronunciation, functional vocabulary related to everyday life, cultural information and basic grammatical structures. Emphasis will be on the acquisition of four skills: listening, speaking, reading and limited writing. Students who actively participate in this course will be able to carry on simple conversations and be at the Novice Low to Novice Mid level (according to ACTFL Proficiency Guidelines).

## French 2

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1511, 1512
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** French 1
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** French Club, Société honoraire de français

**Description:** Students continue to develop and increase their language acquisition in French. Students will be engaged in a study of language structures and vocabulary through reading, listening, speaking, and writing activities. There is a strong emphasis on providing cultural and historical context and conversational examples for the language concepts presented. Students should expect to be actively engaged in their own language learning and understand common vocabulary and phrases. Students who actively participate in this course will be able to carry on simple conversations and be at the Novice Mid to Novice High level (according to ACTFL Proficiency Guidelines).

[Return to Course Guide Navigation](#)

## French 3

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1521, 1522
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** French 2
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** French Club, Société honoraire de français

**Description:** Students continue to develop and increase their language acquisition in French through the study of language structures in cultural and historical contexts. Students will be engaged in the language through reading, listening, speaking, and writing activities. Students will be expected to set their own proficiency goals, expanding their vocabulary range to include more sophisticated terms and using advanced language expressions. Students who actively participate in this course will be able to initiate and maintain simple interactions and be at the Novice High to Intermediate Low level (according to ACTFL Proficiency Guidelines) Page 27.

## French 4

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1531, 1532
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** French 3
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** French Club, Société honoraire de français

**Description:** Students continue to develop and increase their language acquisition in French through the study of language structures in cultural and historical contexts. Students will be engaged in the language through reading, listening, speaking, and writing activities. Students will be expected to set their own proficiency goals, expanding their vocabulary range to include more sophisticated terms and using advanced language expressions. Students who actively participate in this course will be able to converse on familiar topics using the

present tense with some evidence of other time frames and be at the Novice High to Intermediate Mid level (according to ACTFL Proficiency Guidelines). With permission of the teacher, this class may be taken as independent study.

## French 5

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1541, 1542
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** French 4
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** French Club, Société honoraire de français

**Description:** This course builds on previous French studies, focusing on advanced grammar skills and the literature of Francophone countries. (This course is taught in conjunction with French 4 And is often independent study).

# GERMAN

## German 1

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1601, 1602
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** German Club

**Description:** German 1 will provide the student with a general introduction to the German language: sound system, pronunciation, functional vocabulary related to everyday life, cultural information and basic grammatical structures. Emphasis will be on the acquisition of four skills: listening, speaking, reading and limited writing. Students who actively participate in this course will be able to carry on simple conversations and be at the Novice Low to Novice Mid level (according to ACTFL Proficiency Guidelines).

## German 2

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1611, 1612
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** German 1
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** German Club, Delta Epsilon Phi

**Description:** Students continue to develop and increase their language acquisition in German. Students will be engaged in a study of language structures and vocabulary through reading, listening, speaking, and writing activities. There is a strong emphasis on providing cultural and historical context and conversational examples for the language concepts presented. Students should expect to be actively engaged in their own language learning and understand common vocabulary and phrases. Students who actively participate in this course will be able to carry on simple conversations and be at the Novice Mid to Novice High level (according to ACTFL Proficiency Guidelines).

## German 3

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1621, 1622
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** German 2
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** German Club, Delta Epsilon Phi

**Description:** Students continue to develop and increase their language acquisition in German through the study of language structures in cultural and historical contexts. Students will be engaged in the language through reading, listening, speaking, and writing activities. Students will be expected to set their own proficiency goals, expanding their vocabulary range to include more sophisticated terms and using advanced language expressions. Students who actively participate in this course will be able to initiate and maintain simple interactions and be at the Novice High to Intermediate Low level (according to ACTFL Proficiency Guidelines). The DSD 1 exam or the AAPPL exam will be taken during the second semester to qualify for the Kansas State Seal of Biliteracy.

## German 4

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1631, 1632
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** German 3
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** German Club, Delta Epsilon Phi

**Description:** Students continue to develop and increase their language acquisition in German through the study of language structures in cultural and historical contexts. Students will be engaged in the language through reading, listening, speaking, and writing activities. Students will be expected to set their own proficiency goals, expanding their vocabulary range to include more sophisticated terms and using advanced language expressions. Students who actively participate in this course will be able to converse on familiar topics using the present tense with some evidence of

other time frames and be at the Novice High to Intermediate Mid level (according to ACTFL Proficiency Guidelines). The DSD 1 exam or the AAPPL exam will be taken during the second semester to qualify for the Kansas State Seal of Biliteracy. With permission of the teacher, this class may be taken as independent study.

## German 5

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1641, 1642
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** German 4
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** German Club, Delta Epsilon Phi

**Description:** This course is individualized toward the student's need in advanced language study, and often is geared toward preparation for the DSD 1 or DSD 2 exam. The student sets goals of language improvement and their work is primarily self-directed. Focus areas will be grammar, and topics of interest to the student. This class will meet in conjunction with German IV. The DSD 1 exam or the AAPPL exam will be taken during the second semester to qualify for the Kansas State Seal of Biliteracy.

# SPANISH

## Spanish 1

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1701, 1702
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Azteca / Spanish Club

**Description:** Spanish 1 will provide the student with a general introduction to the Spanish language: sound system, pronunciation, functional vocabulary related to everyday life, cultural information and basic grammatical structures. Emphasis will be on the acquisition of four skills: listening, speaking, reading and limited writing. Students who actively participate in this course will be able to carry on simple conversations and be at the Novice Low to Novice Mid level (according to ACTFL Proficiency Guidelines).

## Spanish 2

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1711, 1712
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Spanish 1
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Spanish Club

**Description:** Students continue to develop and increase their language acquisition in Spanish. Students will be engaged in a study of language structures and vocabulary through reading, listening, speaking, and writing activities. There is a strong emphasis on providing cultural and historical context and conversational examples for the language concepts presented. Students should expect to be actively engaged in their own language learning and understand common vocabulary and phrases. Students who actively participate in this course will be able to carry on simple conversations and be at the Novice Mid to Novice High level (according to ACTFL Proficiency Guidelines).

## Spanish 3

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1721, 1722
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Spanish 2 or Spanish for Heritage Language Learners
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Spanish Club, Sociedad Honorífica Hispanica

**Description:** Students continue to develop and increase their language acquisition in Spanish. Students will be engaged in a study of language structures and vocabulary through reading, listening, speaking, and writing activities. There is a strong emphasis on providing cultural and historical context and conversational examples for the language concepts presented. Students should expect to be actively engaged in their own language learning and understand common vocabulary and phrases. Students who actively participate in this course will be able to carry on simple conversations and be at the Novice High to Novice Intermediate level (according to ACTFL Proficiency Guidelines).

## Spanish 4

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1731, 1732
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Spanish 3 or Spanish for Heritage Language Learners
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Spanish Club, Sociedad Honorífica Hispanica

**Description:** Students continue to develop and increase their language acquisition in Spanish through the study of language structures in cultural and historical contexts. Students will be engaged in the language through reading, listening, speaking, and writing activities. Students will be expected to set their own proficiency goals, expanding their vocabulary range to include more sophisticated terms and using advanced language expressions. Students who actively participate in this course will be able to converse on familiar topics using the present tense with some evidence of other time frames and be at the Novice High to Intermediate Mid level (according to ACTFL Proficiency Guidelines). Students have the opportunity to take the AAPPL to qualify for the Kansas State Seal of Biliteracy. Students can qualify for the Seal their Junior or Senior year of HS. With permission of the teacher, this class may be taken as independent study.

## Spanish 5

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1735, 1736
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** Spanish 4
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Spanish Club, Sociedad Honorífica Hispanica

**Description:** Class will be independent study and meet in conjunction with Spanish IV. Students continue to develop and increase their language acquisition in Spanish through the study of language structures in cultural and historical contexts. Students will be engaged in the language through reading, listening, speaking, and writing activities. Students will be expected to set their own proficiency goals, expanding their vocabulary range to include more sophisticated terms and using advanced language expressions. Students who actively participate in this course will be able to converse on familiar topics using the present tense with some evidence of other time frames and be at the Novice High to Intermediate Mid level (according to ACTFL Proficiency Guidelines). With permission of the teacher, this class may be taken as independent study. Students have the opportunity to take the AAPPL exam to qualify for the Kansas State Seal of Biliteracy. Students can qualify for the Seal their Junior or Senior year of

## Spanish Heritage Language Learners I & II

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 1741, 1742 & 1743, 1744
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** Spanish Club

**Description:** This course is designed for students who speak Spanish at home and is geared toward improving listening, viewing, reading, speaking, and writing skills with the goal of achieving the Kansas State Seal of Biliteracy in their Junior/Senior year of high school. The class is conducted in Spanish and covers Spanish spelling, language use, writing organization and is designed to increase student's knowledge of Latin American literature and culture. Students may take this class twice, completing Levels I and II. Students who would like to continue their language study would follow this course progression: Spanish for Heritage Language Learners I and II, Spanish 3 or 4, level 5 and or Independent Study.



## ELECTIVES / SPECIAL PROGRAMS

---

- Fire Science
- Reality 101
- Teacher Aid
- ELL
- Library Study Hall
- Jobs for Americas Graduates (JAG)
- Health Science IV
- Certified Nursing Assistant (CNA)
- Emergency Medical Technical (EMT)
- Intro to Healthcare
- Medical Terminology



## ELECTIVES

### Fire Science I & II

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 80951, 80952
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Hutch CC Course
- ⇒ **Course Fees:** Free tuition. Student in responsible for textbook.
- ⇒ **Dual Credit Available:** Yes– Hutch CC
- ⇒ **Clubs:** None

**Description:** Fire Science I

**FS 110 Firefighter I:** Beginning course leading to Firefighter I certification, including emergency medical care, fire behavior, firefighting equipment and rescue and safety procedures. FS 150 Hazardous Materials Operations: The knowledge and skills first-responding firefighters and EMS personnel need to safely respond to routine and non-routine emergencies that may involve hazardous materials.

#### Fire Science II

FS113 Firefighter II: A follow-up course to FS110 Firefighter I, leading to a Firefighter II certification, including fire behavior, firefighting equipment, rescue and safety procedures, fire department operations and management and emergency medical care. FS 151 Fire Ground Operations: This course covers basic fire ground operations, including live fire suppression, ventilation, and search and rescue. 8 college credit hours through Hutch CC. CLOCK HOURS are mandated by the State Board, students CANNOT miss more than 10% of class time.

Students ENROLLING AND QUALIFYING for dual credit courses who DROP them AFTER April 15 will be assessed a \$25 fine, after June 1 will be assessed a \$50 fine.

### Reality 101

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 9195
- ⇒ **Grade Levels:** 9,10
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** An interdisciplinary curriculum that engages students in an interactive learning process, helping them develop financial literacy and successfully:

- Examine their own lives (Who am I?)
- Explore and evaluate a wide range of education and career options (What do I want?)
- Make reasoned and researched goals for their future (How do I get it?)

The course culminates with the students developing an individualized, online, 10-year plan that motivates them to envision a self-sufficient, productive life beyond high school, college or post-secondary training. This class is designed to develop students' skill sets to be successful in high school and beyond. The class covers social/emotional learning and soft skills development. A large focus will be on "How to Be Successful During and After High School".

### Teacher Aide

---

- ⇒ **Credit:** Pass/Fail
- ⇒ **Course Number(s):** 67707, 67708
- ⇒ **Grade Levels:** 11,12
- ⇒ **Pre-Requisites:** Application & Teacher Approval
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** 1. Complete all duties assigned by your cooperating teacher. 2. Notify your cooperating teacher if you are planning to be absent. 3. Maintain confidentiality when working with sensitive materials or other students. 4. Demonstrate responsibility and follow all school rules when outside supervised areas.

### ELL

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 7501, 7502
- ⇒ **Grade Levels:** 9,10,11,12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** The ELL course provides students with opportunities to develop confidence, competence, and fluency through practice in literacy skills for navigating modern American society. It emphasizes basic reading skills and allows for practice with decoding words, reading aloud with accuracy, expression, and comprehension, and introduces basic vocabulary based on real-world themes.

### Library Study Hall

---

- ⇒ **Credit:** No Credit Class
- ⇒ **Course Number(s):** 7921, 7922
- ⇒ **Grade Levels:** 9, 10, 11,12
- ⇒ **Pre-Requisites:** Application, Counselor & Principal Approval.
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Students enrolled in a combination of three or more Dual Credit, Honors or Advanced Placement courses may apply to take a study hall for no credit in order to complete homework or research requirements. Class will be held in the library. Other circumstances may warrant a student to be approved for study hall. All students in study hall must be approved by their counselor and alpha principal. Students with behavior or attendance issues will be removed from this course and enrolled in a credit class.

**JAG 9/10**

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 75501, 75502
- ⇒ **Grade Levels:** 9, 10
- ⇒ **Pre-Requisites:** Teacher Approval
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** JAG-K (Jobs for America’s Graduates – Kansas) is a career exploration and preparation program that provides a hands-on approach in exploring personal strengths and challenges as well as job attainment skills (cover letter, resume, job application, interviewing, etc.) and workplace “survival” skills (interpersonal relations, teamwork, etc.). Students will acquire valuable knowledge through Project-Based Learning and classroom instruction to enhance communication, life survival, organization, leadership and decision-making abilities. Students will participate in activities that help develop, practice, and refine skills needed for personal, academic, and career success. This full-year class involves individual assignments, team activities/projects, academic remediation support, service-learning opportunities, work-based learning, virtual and in-person guest speakers & field trips, community service, Employer Engagement, and career exploration through job shadowing and/or internship. This class provides a “Resiliency” environment where ALL students, no matter what their circumstances, can come to understand they are capable of extraordinary accomplishments.

**JAG 11/12**

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 75507, 75508
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Teacher Approval
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** JAG-K (Jobs for America’s Graduates – Kansas) is a career exploration and preparation program that provides a hands-on approach in exploring personal strengths and challenges as well as job attainment skills (cover letter, resume, job application, interviewing, etc.) and workplace “survival” skills (interpersonal relations, teamwork, etc.). Students will acquire valuable knowledge through Project-Based Learning and classroom instruction to enhance communication, life survival, organization, leadership and decision-making abilities. Students will participate in activities that help develop, practice, and refine skills needed for personal, academic, and career success. This full-year class involves individual assignments, team activities/projects, academic remediation support, service-learning opportunities, work-based learning, virtual and in-person guest speakers & field trips, community service, Employer Engagement, and career exploration through job shadowing and/or internship. This class provides a “Resiliency” environment where ALL students, no matter what their circumstances, can come to understand they are capable of extraordinary accomplishments.



## HEALTH SCIENCE

### EMT

- ⇒ **Credit:** 2.0
- ⇒ **Course Number(s):** 80901, 80902, 80903, 80904
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** Free tuition. Student is responsible for textbook.
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** HOSA

**Description:** Human Body Systems or Anatomy and Physiology are strongly encouraged and can be taken concurrently.

Concepts of emergency care that prepare an entry-level provider and primary staff from basic life support ambulance services. Information and techniques necessary for certification as an Emergency Medical Technician (EMT) in the State of Kansas and National Registry of EMT.

10 college credit hours through Hutch CC. CLOCK HOURS are mandated by the State Board, students CANNOT miss more than 10% of class time.

Students ENROLLING AND QUALIFYING for dual credit courses who DROP them AFTER April 15 will be assessed a \$25 fine, after June 1 will be assessed a \$50 fine.

### CNA

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 76502
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Requires an Accuplacer reading score of 231+; ACT of 14+; highly recommend Human Body Systems or Anatomy and Physiology be taken before this course.
- ⇒ **Course Fees:** Free tuition. Student responsible for textbook.
- ⇒ **Dual Credit Available:** Yes—Hutch CC
- ⇒ **Clubs:** HOSA

**Description:** Fundamental knowledge of the aging process with emphasis on meeting the physical needs requirements of geriatric residents of health care facilities including ethics, communication, normal and aging body system functions, nutrition, diseases, observation skills, documentation, personal care skills and their adequate performance. Students must pass both theory and clinical portions of the course. Students are required to do clinicals OUTSIDE of school hours please plan accordingly. Students will also take a state board test at the end of the course and if passed, will receive their CNA license.

4.5 College Credit Hours through Hutch CC. CLOCK HOURS are mandated by the State Board of Healing Arts, students CANNOT miss more than 5 hours of class time.

Students ENROLLING AND QUALIFYING for dual credit courses who DROP them AFTER April 15 will be assessed a \$25 fine, after June 1 will be assessed a \$50 fine.

### Intro to Healthcare

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 8091
- ⇒ **Grade Levels:** 9,10,11
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** HOSA

**Description:** This is a one semester course for students interested in a career in medicine. Students will explore various careers and will learn about the education and licensure requirements for each field. Guest speakers from NMC Health, Newton Fire/EMS and other area providers will visit students on occasion. Other topics include professional job skills and history of healthcare. The class is held at Newton High School.

### CMA

- ⇒ **Credit:** 1 credit (Elective)
- ⇒ **Course Number:** 36156
- ⇒ **Length of Term:** 0.5 semester - spring semester only
- ⇒ **Grade(s):** 11, 12
- ⇒ **Prerequisites:** CNA; Requires an Accuplacer reading score of 231+; ACT of 14+; Fundamental knowledge of medications, their use, actions, side effects and dosage; documentation; wound management; and supervision skills for geriatric aides.
- ⇒ **Course Fees:** Textbooks - \$167
- ⇒ **Dual Credit:** Yes
- ⇒ **Clubs:** HOSA

**Description:** This is an HCC course offered at NHS in the Spring semester. Students will study the fundamental knowledge of medications, their use, actions, side effects and dosage; documentation; wound management; and supervision skills for geriatric aides. Students will outline the roles and responsibilities of the medication aide and communicate with and supervise patients to promote therapeutic relations. Course information includes information on medical drugs as well as training on the administration of medical drugs. The student must be 18 when they complete the CMA test at the end of the course.

### Medical Terminology

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 819713
- ⇒ **Grade Levels:** 9,10,11
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** HOSA

**Description:** This is a one semester course for students interested in a career in medicine. Students will explore various careers and will learn about the education and licensure requirements for each field. Guest speakers from NMC Health, Newton Fire/EMS and other area providers will visit students on occasion. Other topics include professional job skills and history of healthcare. The class is held at the Newton High School Health Science Academy Building on NMC Health's campus and school transportation is provided.

### College Medical Terminology

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 7955
- ⇒ **Grade Levels:** 9,10,11
- ⇒ **Pre-Requisites:** Application
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** HOSA

**Description:** This course provides an opportunity for students to participate in both the classroom and in one or more professional learning experience rotations in each of the five pathways of the Health Science Education career cluster. During rotation opportunities, students will gain knowledge and skills required of all aspects of the healthcare profession. Students must complete at least five (5) rotations during the semester that encompass occupations representing various healthcare fields. Teaching and learning experiences to be included but not limited to portfolio development, documentation of daily shadowing experiences, appropriate communication skills, and proper application of HIPPA rules and regulations. Additional course content may include but is not limited to leadership skills and research of personal career interests in healthcare. Internships are not necessarily paid.

# INTERNSHIPS

## General Internship

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 81371, 81372
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in a student matched career interest. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students must submit an application and resume. Students will go through an interview process. Placement is based

## Ag Academy Internship

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 8135, 8136
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** Application & Three previous courses in the Ag Pathway
- ⇒ **Pathway:** Animal Science, Agriculture Science, Power, Structure and Technical Systems, Plan systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** Students in the Ag academy will be placed in one or more internships that match their career interests in the senior year. Students will attend the placement daily for two hours per day and ten hours per week. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. This course is the capstone for students in the Ag Career Academy and is the bedrock of the Academy. The desire to give students direct, real life job experiences on which to assess their possible future career is paramount to the success of our students and the Agricultural Career Academy. Skill areas to be reinforced and

[Return to Course Guide Navigation](#)

strengthened throughout the course include, written and oral communication, human relations, team work, decision making, problem solving, time and resource management, college and/or career planning. This course would serve as the final piece to the puzzle in guiding students to their future college and career plans.

## Aviation Workplace Experience

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 7957
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application & Drones
- ⇒ **Pathway:**
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in the Aviation field. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students will go through an interview process. Placement is based on open opportunities.

## Biomedical Workplace Experience

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 7951
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Anatomy and Physiology
- ⇒ **Pathway:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in the biomedical field. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly

reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students will go through an interview process. Placement is based on open opportunities.

## Career Connections

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 85543, 85544
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in a student matched career interest. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students will go through an interview process. Placement is based on open opportunities.

## Construction Workplace Experience

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 7958
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Woods 1
- ⇒ **Pathway:**
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in the Construction field. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students will go through an interview process. Placement is based on open opportunities.

## INTERNSHIPS (Cont.)

### Engineering- Workplace Experience

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 7952
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Student must complete 1-3 STEM or Engineering courses
- ⇒ **Pathway:** Engineering
- ⇒ **Course Fees:** None
- ⇒ **Clubs:** Robotics
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in the fields of STEM and Engineering. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students will go through an interview process. Placement is based on open opportunities.

### Finance

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 7953
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application & Financial Management
- ⇒ **Pathway:**
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in the Finance field. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students will go through an interview process. Placement is based on open opportunities.

### Graphic Design

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 7954
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:**
- ⇒ **Pathway:**
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in the Finance field. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students will go through an interview process. Placement is based on open opportunities.

### Marketing Workplace Experience

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 7956
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application & Marketing
- ⇒ **Pathway:** Marketing
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in the field of Marketing. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students will go through an interview process. Placement is based on open opportunities.

### Teaching Internship

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 86105, 86106
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application & Teaching as a Career
- ⇒ **Pathway:** Teaching
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** Education Methodology course prepares students to teach and guide others. These courses typically provide opportunities for students to develop their own teaching objectives, to design lesson plans, and to experience teaching in a controlled environment. Students examine and practice teaching strategies, learning styles, time management and planning strategies, presentation and questioning skills, classroom management, and evaluation techniques. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students will go through an interview process.

### Automotive Internship— Research and Emerging Trends in Transportation

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 82133
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** Application & Auto 2
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in a student matched career interest. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. An additional layer to this course is that several research projects will be assigned throughout the semester for further exploration. Students must submit an application and resume. Students will go through an interview process. Placement is based on open opportunities.

# COURSE GUIDE NAVIGATION

---

## By Department

<u>Business/FACS/Journalism</u> .....	19
<u>English Language Arts</u> .....	25
<u>Fine Arts</u> .....	30
<u>Mathematics</u> .....	36
<u>Physical Education</u> .....	39
<u>Science</u> .....	41
<u>Social Studies</u> .....	46
<u>Special Education</u> .....	51
<u>Industrial CTE</u> .....	56
<u>World Languages</u> .....	66
<u>Electives/Special Programs</u> .....	70

## By Pathway

<u>Agriculture</u> .....	79
<u>Audio/Video Communication</u> .....	83
<u>Automotive Technology</u> .....	86
<u>Business Finance</u> .....	89
<u>Construction &amp; Design</u> .....	92
<u>Engineering</u> .....	94
<u>Family, Community &amp; Consumer Sciences (FACS)</u> .....	97
<u>Health Science</u> .....	99
<u>Information Technology</u> .....	103
<u>Manufacturing—Machining</u> .....	105
<u>Manufacturing—Welding</u> .....	107
<u>Marketing</u> .....	109
<u>Teaching &amp; Training</u> .....	112
<u>Restaurant &amp; Event Management</u> .....	114

## By Special Program

<u>Agriculture Academy</u> .....	118
<u>Health Science Academy</u> .....	119



## By Pathway

<u>Agriculture</u> .....	79
<u>Audio/Video Communication</u> .....	83
<u>Automotive Technology</u> .....	86
<u>Business Finance</u> .....	89
<u>Construction &amp; Design</u> .....	92
<u>Engineering</u> .....	94
<u>Family, Community &amp; Consumer Sciences (FACS)</u> .....	97
<u>Health Science</u> .....	99
<u>Information Technology</u> .....	103
<u>Manufacturing—Machining</u> .....	105
<u>Manufacturing—Welding</u> .....	107
<u>Marketing</u> .....	109
<u>Teaching &amp; Training</u> .....	112
<u>Restaurant &amp; Event Management</u> .....	114



# AGRICULTURE PATHWAY

The complete agricultural education program will target students through:

- Contextual, inquiry-based instruction and learning through an interactive classroom and laboratory.
- Premier leadership, personal growth and career success through engagement in FFA activities and programs.
- Experiential, service and/or work-based learning through the implementation of a supervised agricultural experience program.

We aspire for excellence as we recruit, prepare and encourage individuals to pursue agricultural careers in life skills through agricultural education. We serve the community and inform them about agriculture, its needs, opportunities and challenges, as well as provide life long career skills. Agricultural Education programs will respond to community needs and Kansas' agriculture needs. It will prepare students to be College and Career Ready and to participate as leaders and managers in a global economy.

## Hot Jobs

- Farming, Ranching, and other Ag Managers
- First-Line Supervisors of Landscaping and Lawn Service
- Crop, Nursery, and Greenhouse Workers

## Industry Certifications

OSHA 10

## Clubs & Organizations

FFA

# Agriculture—Technical

## Animal Science

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 81531, 81532
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Agriscience
- ⇒ **Pathway(s):** Animal Science, Agriculture Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** FFA

**Description:** This course will broaden a student's understanding of animal and biological principles. Animal Science will cover all aspects of the animal industry including genetics, nutrition, reproduction, husbandry, and economics. Student learning is enhanced through the onsite outdoor lab. Supervised ag experiences (SAE) and FFA leadership activities are integral components of the course. This provides students with application opportunities. Students are expected to attend at least one CDE while in the class.

Eligible for Regents Qualified Admissions – Livestock Management Jr. & Sr. concurrent enrollment with Hutch CC – NO TUITION. This course MAY also count as one of the required science credits for graduation.

## Biotechnology in Ag

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8125, 8126
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Plant and Animal Science and Chemistry.
- ⇒ **Pathway(s):** Animal Science, Agriculture Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** Biotechnology in Agriculture is a class within the Ag Academy that focuses on many areas of industry, providing students with a background on the regulatory issues and agencies involved including the USDA and FDA. The course will also analyze ethical, legal, social and cultural issues regarding the use of biotechnology in agriculture. Lab work will be stressed in the course. Students will develop an understanding of lab operations including record keeping, equipment operations and management, as well as the proper handling and use of biological materials. Labs procedures focusing on the isolation and purification of DNA and RNA, analysis of genetic samples using electrophoresis and PCR technologies, the production and use of antibodies and protein detections, as well as the importance of microbe detections in lab and industry settings, will all be included. This course is part of the Ag Academy science progression. This course does count for science credit. Juniors in the Ag Academy get preference for this class. All other Juniors are accepted when space is available.

## Horticulture 1

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8191, 8192
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Tech Ag or Plant and Animal Science
- ⇒ **Pathway(s):** Ag Sciences, Plant Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This course provides students with an opportunity to study greenhouse management, landscaping, turf management, and fruit and vegetable production. Students will propagate, grow bedding plants, operate the school greenhouse, and complete a landscape design. Some introduction to forestry and environmental careers is included. Students will participate in the FFA activities including Public Speaking, Judging, and Problem Solving. If a student successfully completes Biology and Chemistry or Life Science and Integrated Science 1, they may select Horticulture 1, Horticulture 2 or Animal Science for their third science credit.

## Introduction to Ag Mechanics

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8181, 8182
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Power, Structural & Technical Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** In this course, students will develop basic Ag Mechanics skills. This will include welding, oxy-acetylene cutting, structures, electricity, and plumbing. Students will need to provide the required PPE, jeans, 100% cotton shirt, and welding/cutting gloves. FFA leadership activities and SAE (supervised agricultural experience) activities are integral to this course. Students are expected to attend at least one CDE while in this class.

## Plant & Animal Science

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 85121, 85122
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Agricultural Sciences
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This course provides content related to resource conservation, plant sciences, food science, and animal production providing comprehensive coverage of the production functions of the agricultural industry. Supervised ag experiences (SAE) and FFA leadership activities are integral components of the course. These will provide students with many opportunities for practical application of instructional competencies. Students are expected to attend at least one career development event while in the class.



## Agriculture—Technical

### Pre-Vocational Ag Welding

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8141, 8142
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Intro to Ag Mechanics, Agriscience
- ⇒ **Pathway(s):** Animal Science, Power, Structural & Technical Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This course is designed for students wanting to explore the career of professional welder. Pre-Voc Ag Welding is competency-based (achieve skill levels at the individual's pace) covering shop safety, arc welding, MIG welding and Plasma Arc and CNC Plasma Cutting. Supervised ag experiences (SAE) and FFA leadership activities are integral to this course. Students are expected to attend at least one career development event (CDE)

### Small Engines

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8171, 8172
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Pre-Vocational Welding
- ⇒ **Pathway(s):** Power, Structural, & Technical Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** In this course, students will develop basic topics covering theory, maintenance, tear down and reassembly, troubleshooting and all major components of the basic systems of small gasoline engines. Supervised ag experiences (SAE) and FFA leadership activities are integral to this course. Students are expected to attend at least one career development event (CDE) while in the class.

## Vet Tech/Animal Health

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 81541, 81542
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Agriscience and Animal Science
- ⇒ **Pathway(s):** Animal Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This course takes an in depth look into animal health. This course will cover a multitude of topics, including, but not limited to animal anatomy, health, animal handling, and careers. Students will learn and develop essential skills that are crucial to being successful as a vet tech. Supervised ag experiences (SAE) and FFA leadership activities are integral to this course. Students are expected to attend at least one career development event (CDE) while in the class.

### Ag Equipment Construction

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8185, 8186
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Pre Vocational Welding & Modern Ag Mechanics
- ⇒ **Pathway(s):** Power, Structural, & Technical Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This class is designed for juniors and seniors who want to study the design and operation of Ag equipment. Students apply mechanical skills to the design and construction of Ag equipment. Students will learn blueprint reading and technical reading for construction and assembling Ag equipment. Supervised ag experiences (SAE) and FFA leadership activities are integral to this course. Students are expected to attend at least one career development event (CDE) while in the class.

## Agriculture—Application

### Adv. Modern Ag Mechanics

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8183, 8184
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Intro to Ag Mechanics, Pre-Voc Welding, Small Engines, By Approval Only
- ⇒ **Pathway(s):** Power, Structural & Technical Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This is an upper level course with emphasis on career skills in mechanics and engineering. Instruction will focus on extending skills developed in previous Ag Mechanics classes. Supervised ag experiences (SAE) and FFA leadership activities are integral components of this course. These provide students with practical application. Students are expected to attend at least one career development event (CDE) while in this class.

## Agriculture—Application

### Ag Power Mechanics

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8187, 8188
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Intro to Ag Mechanics, Pre-Voc Welding
- ⇒ **Pathway(s):** Power, Structural & Technical Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** Ag Power Mechanics gives students hands on opportunities to repair and maintain internal combustion engines, electrical, and hydraulic systems. Scientific, mathematical, economic, and technical principles are reinforced in this course, as are communication and critical thinking skills. Supervised agricultural experience SAE programs and FFA leadership activities are integral components of the course and provide opportunities for practical application of instructional competencies. This provides students with application opportunities. Students are expected to attend at least one CDE.

### Agribusiness

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8123, 8124
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Agriscience and/or Plant & Animal
- ⇒ **Pathway(s):** Animal Science, Agriculture Science, Power, Structural & Technical Systems, Plant Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** Students in this course study careers in the agri-business industry which include, but are not limited to, careers in communications, displaying, advertising, physical distribution, selling, and transportation. Skills are developed in recordkeeping, management, economics, and computer orientation as they relate to

agri-business. Leadership is developed through participation in the FFA organization. Students are encouraged to have a crop, live-stock, Ag Mechanics or Ag Science program or be employed by an agribusiness firm in the community.

### Horticulture 2

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8193, 8194
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Horticulture 1
- ⇒ **Pathway(s):** Plant Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This course is designed to provide students with the opportunity to manage and operate a school greenhouse. Emphasis is placed on skills needed in Horticulture Services, Landscape Contracting, Certified Nursery Professional, and Retail Florist. Students will be prepared to enter fields in the green industry. Independent projects that focus on plant sciences are also required. Supervised agricultural experience programs (SAE) and FFA leadership activities are integral components of the course and provide many opportunities for practical application of instructional competencies. Students are expected to attend at least one career development event (CDE) while in this class. If a student successfully completes Biology and Chemistry or Life Science and Integrated Science 1, they may select Horticulture 1, Horticulture 2 or Animal Science for their third science credit. Class may be taken multiple years by Teacher Approval.

### Ag Internship

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8135, 8136
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** Three previous courses in at least one Ag Pathway.
- ⇒ **Pathway(s):** Animal Science, Agriculture Science, Power, Structural & Technical Systems, Plant Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This course is the on-the-job element of the Ag Academy as well as the Ag pathways. This includes working in an approved ag-related area for approximately 5 hours per week with a minimum of 90 hours per semester for one credit. Ten hours per week with a minimum of 180 hours per semester are required for two credits.



## AUDIO/VIDEO COMMUNICATIONS

---

### Introductory Level

- Business Essentials
- Computer Applications

### Technical Level

- Introduction to Journalism
- Graphic Design I
- Graphic Design II
- Audio/Video Production Fundamentals

### Application Level

- Digital Media Design & Production
- Newsmag
- Yearbook
- Internship

# AV COMMUNICATIONS PATHWAY

The Arts, Audio/Visual and Communications Cluster focuses on the development of skills to share a message, feeling or emotion through digital, 2D and 4D means. Kansas has created two pathways for this cluster, both very different from each other. In addition, the Visual Arts pathway has two strands which further define the skill set of this career cluster. The pathway design sheets found under each pathway link will provide access to the course competencies, which direct the knowledge and skill development.

### Hot Jobs

- Multi-Media Artists & Animators
- Graphic Designer
- Reports & Correspondents
- Film & Video Editors

### Industry Certifications

- None

### Clubs & Organizations

- NewsMag
- Yearbook

## Audio/Video– Introductory

### Business Essentials

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 50301
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Business Finance & Marketing, AV Communications, Restaurant & Event Management, Mobile Equipment Maintenance
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** BPA

**Description:** This introductory course is designed to give students an overview of the business field but also how business is involved in everyday life and all careers. Students will examine current events to determine their impact on business and industry and legal and ethical issues. Students will identify employability and personal skills needed to obtain a career and be successful in the workplace. As students learn about different types of businesses, they will analyze business practices to determine ethical and social responsibilities.

### Computer Applications I

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 50101
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Network Systems, AV Communications
- ⇒ **Course Fees:** : None
- ⇒ **Dual Credit Available:**
- ⇒ **Clubs:** BPA & E-Sports

**Description:** This class will consist of computer concepts, word processing, spreadsheet, and presentation skills. Students will have the opportunity to test for MOS Certification.

## Audio/Video– Technical

### Audio/Video Communications Production Fundamentals

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 12213, 12214
- ⇒ **Grade Levels:** 9,10,11,12
- ⇒ **Pre-Requisites:** Teacher Approval Required
- ⇒ **Pathway:** AV Communications
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Railer Productions

*\*Fine Arts Credit*

**Description:** Audio Video Production Fundamentals provides a basic understanding of producing video for a variety of uses. Topics include analyzing the pre-production, production and post-production process, as well as exploring the equipment and techniques used to develop a quality video production. Students will gain real world experience by covering school events, which will be featured on RailerNews website. Can be repeated for credit.

### Graphic Design 1

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 41411, 41412
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Painting & Drawing 1
- ⇒ **Pathway:** AV Communications
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Art Club

**Description:** This course provides a basic understanding of the graphic design process, and is for the design-oriented student. Topics include analyzing the design elements and principles, exploring industry tools, software and equipment and learning composition techniques to develop a quality product. The use of the computer as an art tool will be introduced.

## Graphic Design 2

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 41511, 41512
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Graphic Design 1
- ⇒ **Pathway:** AV Communications
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Art Club

**Description:** A class for the advanced graphics design student. There will be further exploration in typography and graphic design. Focus will be towards a career as a graphics designer.

### Introduction to Journalism

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 12011, 12012
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** Application
- ⇒ **Pathway:** AV Communications
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** News Magazine, Yearbook, Railer Productions

*\*Fine Arts Credit*

**Description:** This course promotes the development of the skill set needed today and in the future, including an overview of the field of journalism and mass communication. Students learn to be consumers of media and to understand news gathering and production. Students will also explore photography and the principles of design. This course includes instruction in basic news writing, reporting, editing, and discussion of legal and ethical issues. Additionally, it will teach the technical skills needed to work with the Adobe software and tools used in the industry. This class is the prerequisite for News Magazine Production and/or Yearbook Production.

## Audio/Video– Application

### Digital Media Design/ Production

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 12211, 12212
- ⇒ **Grade Levels:** 9,10,11,12
- ⇒ **Pre-Requisites:** Introduction to Journalism & Application.
- ⇒ **Pathway:** AV Communications
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** The Newtonian, The Rail-roader

*\*Fine Arts Credit*

**Description:** This is a lab course in which students will create the school news magazine (PREREQUISITE IS 21ST CENTURY JOURNALISM) and produce online content OR create the school yearbook. This course will provide students with the opportunity to apply the fundamental techniques learned in 21st Century Journalism through the production of a multi-media project for public presentation. Topics include developing a production schedule, collaborating as a team, utilizing composition principles and embedding audio, video or other content in digital formats. Students taking this course must be self-directed and be able to work with others. Leadership, cooperation and high standards of achievement are essential in all staff members. This course may be repeated for credit.



# AUTOMOTIVE

---

## Introductory Level

- Intro to Industrial Technology
- Auto Restoration Techniques
- Consumer Auto Care
- Business Essentials

## Technical Level

- Auto I (Engine Repair, Engine Performance I, Electrical Systems)
- Auto II (Steering/Suspension & Brakes)
- Auto III (Drive Train Technology & Mobile HVAC)

## Application Level

- Auto II ( Adv. Steering/Suspension)
- Internship

## AUTOMOTIVE PATHWAY

Mission: To prepare students with the knowledge and skills necessary for continued education and, ultimately, a successful career in Facility & Mobile Equipment Maintenance .

These Pathways of Study enable students:

- To obtain necessary skills through high quality classroom, laboratory, and field instruction.
- To earn professional certifications required for employment.
- To transition to postsecondary level institutions for additional education opportunities.

### Hot Jobs

Technician, Installers, and Repairers

Mobile Heavy Equipment Technician

Automotive Service Technician and Mechanic

### Industry Certifications

ASE— Refrigerant, Recovery and Certificate A (Hutch CC)

### Clubs & Organizations

Skills USA/VICA

## Automotive— Introductory

### Automotive Restoration

(Not Offered 24/25)

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 82005
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Mobile Equipment Maintenance
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Skills/USA VICA

**Description:** This course gives an overview of the transportation industry skills and career opportunities. Students will develop hands-on skills related to automotive collision repair, automotive restoration, and automotive technology. This course is recommended for students interested in a career in the automotive industry, and highly suggested to students interested in automotive restoration or collision repair.

### Business Essentials

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 50301
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Business Finance & Marketing, AV Communications, Restaurant & Event Management, Mobile Equipment Maintenance
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** BPA

**Description:** This introductory course is designed to give students an overview of the business field but also how business is involved in everyday life and all careers. Students will examine current events to determine their impact on business and industry and legal and ethical issues. Students will identify employability and personal skills needed to obtain a career and be successful in the workplace. As students learn about different types of businesses, they will analyze business practices to determine ethical and social responsibilities.

## Consumer Auto Care

(Not Offered 24/25)

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 82007
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Mobile Equipment Maintenance
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This course provides students with the opportunity to learn practical car maintenance skills. They will attain basic skills and knowledge needed to own and maintain a vehicle. The students will learn what to consider when buying a car, shopping for car insurance, acquiring a title, etc.

### Intro to Industrial Tech

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 70105, 70106
- ⇒ **Grade Levels:** 9, 10
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Construction & Design, Manufacturing— Welding, Manufacturing— Welding
- ⇒ **Course Fees:** \$25.00
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Introduction to Industrial Technology is designed to introduce students to a variety of skills related to materials and processes. The module based course will cover the basic concepts in circuitry, computer aided design, machining, welding, and woodworking, while learning to use digital fabrication tools such as 3D printers, CNC routers, and Laser engravers/cutters. Project management tools will be utilized to help students learn and practice time management skills.

## Automotive— Technical

### Automotive Technology I

- ⇒ **Credit:** 2.0
- ⇒ **Course Number(s):** 82011, 82012, 82013, 82014
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Hutch CC Application & References, By approval Only
- ⇒ **Pathway(s):** Mobile Equipment Maintenance
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes— Hutch CC
- ⇒ **Clubs:** Skills/USA VICA

**Description:** Must enroll concurrently in 82011, 82012, 82013, and 82014. These classes also place students in enrollment at Hutchinson Community College-no cost. Courses 82011-82014 will prepare students with the following skills:

1. Shop safety and tool usage.
2. Perform base engine mechanical repair, testing and maintenance on various types of engines.
3. Inspect and diagnose various engine performance systems.
4. Knowledge of the basic electrical/electronic system and the equipment needed to diagnose and ser-

## Automotive— Technical

### Automotive Technology II

---

- ⇒ **Credit:** 2.0
- ⇒ **Course Number(s):** 82111, 82112, 82113, 82114
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Auto Tech I with 70% or higher; Application for Program and HCC, References , and Teacher Approval Required.
- ⇒ **Pathway(s):** Mobile Equipment Maintenance
- ⇒ **Course Fees:** \$15
- ⇒ **Dual Credit Available:** Yes— Hutch CC
- ⇒ **Clubs:** Skills/USA VICA

**Description:** Must enroll concurrently in 82111, 82112, 82113, and 82114. These classes also place students in enrollment at Hutchinson Community College-no cost. Courses 82111-82114 have an emphasis placed on advance training and will prepare students with the following skills:

1. Shop safety and tool usage
2. Inspection, diagnostics and servicing of steering and suspension systems; including checking and adjusting alignment.
3. Examination, identification and repair of braking systems; including the hydraulic and the anti-lock braking systems.
4. Comprehensive review and maintenance of drivetrain components.

### Automotive Technology III- Drivetrain Technology

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 82151-82152
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** Auto Tech I with 70% or higher; OR Completion or concurrent enrollment Auto Tech II ; Application for Program and HCC, References , and Teacher Approval Required.
- ⇒ **Pathway(s):** Mobile Equipment Maintenance
- ⇒ **Course Fees:** \$15
- ⇒ **Dual Credit Available:** Yes— HCC
- ⇒ **Clubs:** Skills/USA VICA

**Description:** This is a comprehensive technical course designed to teach students the hands-on skills involved in maintenance, diagnosis, and repair of the drivetrain components including; transmissions, differentials, axles, and other components. This class will concentrate on lab activities and projects that will increase student understanding. This class also places students in enrollment at HCC-no cost.

### Automotive Technology III- Mobile HVAC

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 82161-82162
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** Auto Tech I with 70% or higher; OR Completion or concurrent enrollment Auto Tech II ; Application for Program and HCC, References , and Teacher Approval Required.
- ⇒ **Pathway(s):** Mobile Equipment Maintenance
- ⇒ **Course Fees:** \$15
- ⇒ **Dual Credit Available:** Yes— HCC
- ⇒ **Clubs:** Skills/USA VICA

**Description:** This is a comprehensive technical level course designed to provide students with the basic and advanced theory of operation, service, and repair of the heating, air conditioning, and vehicle cooling systems. This class will concentrate on lab activities and projects that will increase student understanding. This class also places students in enrollment at HCC-no cost.

## Automotive— Application

### Automotive Internship— Research and Emerging Trends in Transportation

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 82133
- ⇒ **Grade Levels:** 12
- ⇒ **Pre-Requisites:** Application & Auto 2
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in a student matched career interest. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. An additional layer to this course is that several research projects will be assigned throughout the semester for further exploration. Students must submit an application and resume. Students will go through an interview process. Placement is based on open opportunities.





# BUSINESS FINANCE

---

## Introductory Level

- Business Essentials

## Technical Level

- Accounting I
- Entrepreneurship/YE
- Business Law

## Application Level

- Financial Management I
- Investing
- Advanced Accounting II
- Internship

## BUSINESS FINANCE PATHWAY

---

The Finance Cluster prepares learners for careers and/or continuing education opportunities in financial and investment planning, banking, insurance and business financial management. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication. The Finance Cluster pathway was based primarily on the national business, management and entrepreneurship career cluster pathways and responsive to Kansas business and industry needs.

### Hot Jobs

Accountant and Auditor  
Financial Manager  
Loan Officer  
Claims Adjustors, Examiners, and Investigators

### Industry Certifications

Microsoft Office Suite

### Clubs & Organizations

BPA

## Business Finance— Intro.

### Business Essentials

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 50301
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Business Finance & Marketing, AV Communications, Restaurant & Event Management, Mobile Equipment Maintenance
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** BPA & DECA

**Description:** This introductory course is designed to give students an overview of the business field but also how business is involved in everyday life and all careers. Students will examine current events to determine their impact on business and industry and legal and ethical issues. Students will identify employability and personal skills needed to obtain a career and be successful in the workplace. As students learn about different types of businesses, they will analyze business practices to determine ethical and social responsibilities.

## Business Finance— Tech.

### Accounting 1

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 5033, 5034
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Business Essentials
- ⇒ **Pathway:** Business Finance
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** BPA

**Description:** This course teaches the fundamental accounting cycles for two types of businesses. The student learns how to operate a service business and the second business that students learn is the organization of a merchandising business as a partnership such as a sporting goods store or an auto parts store. Other topics included are careers, checking accounts, small business management, and payroll records. Students receive college credit through Hutch CC.

[Return to Course Guide Navigation](#)

## Business Law

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 80201
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Business Finance & Marketing
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** BPA

**Description:** This course concentrates on sources of law, types of law, the judicial system, legal rights and responsibilities. Topics include criminal, civil, contracts, consumer, property, agency, employment, family and environmental law. Real-life cases will be integrated within the class.

## Entrepreneurship/YEK

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 8061
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Business Essentials
- ⇒ **Pathway:** Business Finance & Marketing
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** BPA

**Description:** Entrepreneurship will teach the skills and approaches to successfully evaluate and create new business opportunities. Emphasis is placed on projects and student-led learning. Students will engage in team building and collaborative activities.

## Business Finance— App.

### Advanced Accounting II

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 5047, 5048
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Accounting 1
- ⇒ **Pathway:** Business Finance
- ⇒ **Course Fees:** \$130
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** BPA

**Description:** Advanced Accounting II continues to expand upon the fundamental accounting principles and procedures learned in Accounting I. A greater concentration is placed upon corporate and managerial accounting procedures. This course continues its emphasis on planning and developing a career in accounting or other related fields. Students receive college credit for Financial Accounting through Flint Hills Technical College.

### Financial Management I

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 80101
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Business Finance
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** n/a

*\*Graduation Requirement*

**Description:** This course provides students with knowledge and insight to help them make wise choices regarding personal money management. Topics covered will include the economic systems and cycles as they impact consumers. Primary units within the course will also focus on credit use and abuse, budgeting, banking, saving and insurance. An introduction to investing will also be included.

## Business Finance– App.

### Investing

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 80111
- ⇒ **Grade Levels:** 11, 12,
- ⇒ **Pre-Requisites:** Fin. Mgt. 1
- ⇒ **Pathway:** Business Finance
- ⇒ **Course Fees:**
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** n/a

**Description:** This course emphasizes the formulation of business and individual investment decisions by comparing and contrasting the investment qualities of cash, stocks, bonds and mutual funds. Students will review annual reports, predict growth rates and analyze trends. Stock market simulations will be incorporated into this course.

### Business Finance Internship

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 7953
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application & Financial Management
- ⇒ **Pathway:**
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in the Finance field. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students will go through an interview process. Placement is based on open opportunities.



# CONSTRUCTION

---

**Introductory Level**

- Intro to Industrial Technology

**Technical Level**

- Interior Design
- Woodworking I
- Geometry in Construction

**Application Level**

- Woodworking II
- Internship

## CONSTRUCTION PATHWAY

---

Mission: To prepare students with the knowledge and skills necessary for continued education and, ultimately, a successful career in architecture, construction, and skilled mechanical trades occupations.

The Architecture & Construction Pathways of Study enable students:

- To obtain necessary skills through high quality classroom, laboratory, and field instruction
- To earn professional certifications required for employment

To transition to postsecondary level institutions for

### Hot Jobs

**Electrician**

**Construction Manager**

**Plumber**

**Construction Worker**

### Industry Certifications

**None**

### Clubs & Organizations

**SkillsUSA**

## Construction—Introductory

### Intro to Industrial Tech

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 70105, 70106
- ⇒ **Grade Levels:** 9, 10
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Construction & Design, Manufacturing– Welding, Manufacturing– Welding
- ⇒ **Course Fees:** \$25.00
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Introduction to Industrial Technology is designed to introduce students to a variety of skills related to materials and processes. The module based course will cover the basic concepts in circuitry, computer aided design, machining, welding, and woodworking, while learning to use digital fabrication tools such as 3D printers, CNC routers, and Laser engravers/cutters. Project management tools will be utilized to help students learn and practice time management skills.

## Construction—Technical

### Woodworking 1

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 7011, 7012
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Construction & Design
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** SkillsUSA - Cabinetmaking

**Description:** An introduction to wood working and the shop setting. Students will utilize a variety of hand and electrical tools. Students will learn how to properly plan a project by selecting lumber, constructing the project, and finish to their liking. In this course students will get to use the CNC machine and the laser engraving machine. This is an introduction course to Woods II.

## Construction—Application

### Woodworking 2

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 7021, 7022
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Construction & Design
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** SkillsUSA - Cabinetmaking

**Description:** An application level course designed to allow students to broaden their knowledge and understanding of the woodworking industry. Students will demonstrate knowledge learned from Woodworking I and utilize what they have learned in a shop setting. Students will design from start to finish a project of their own choosing with instructor clearance, or orders that come into the course. Students will gain optimal shop experience with a variety of hands-on learning opportunities through the use of traditional equipment, as well as CNC and laser operations.

## Construction - Workplace Experience

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 7958
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Woods 1
- ⇒ **Pathway:**
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in the Construction field. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students will go through an interview process. Placement is based on open opportunities.



**ENGINEERING**

**Introductory Level**

- Intro to Industrial Technology
- Chemistry

**Technical Level**

- Engineering Design
- Principles of Engineering

**Application Level**

- Civil Engineering & Architecture
- Engineering Design & Development
- Internship

# ENGINEERING PATHWAY

The Mission of Engineering Education:

To promote STEM education through the teaching of Engineering Skills that will prepare students to enter the workforce and to participate as leaders, innovators, and managers in a global economy.

To Accomplish This Mission:

The Engineering education program will support students through:

- High quality classroom and laboratory instruction
- Development of premier leadership, personal growth, and career success
- Ensuring a smooth transition to postsecondary level

## Hot Jobs

**Industrial Engineer**  
**Mechanical Engineer**  
**Electrical Engineer**  
**Aerospace Engineer**

## Industry Certifications

**None**

## Clubs & Organizations

**Robotics**

## Engineering—Introductory

### Chemistry

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3541, 3542
- ⇒ **Grade Levels:** 10, 11
- ⇒ **Pre-Requisites:** Health Science
- ⇒ **Pathway:** Health Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Chemistry Club

**Description:** This course will emphasize building students' understanding of the fundamental structures and properties of matter. Students will develop core concepts of chemistry based on the periodic table, bonding, kinetic theory, and the nature of matter in solutions, and the mole concept. Concepts are reinforced by numerous laboratory experiments.

### Intro to Industrial Tech

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 70105, 70106
- ⇒ **Grade Levels:** 9, 10
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Construction & Design, Manufacturing– Welding, Manufacturing– Welding
- ⇒ **Course Fees:** \$25.00
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Introduction to Industrial Technology is designed to introduce students to a variety of skills related to materials and processes. The module based course will cover the basic concepts in circuitry, computer aided design, machining, welding, and woodworking, while learning to use digital fabrication tools such as 3D printers, CNC routers, and Laser engravers/cutters. Project management tools will be utilized to help students learn and practice time management skills.

## Engineering—Technical

### Engineering Design

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 7053-7054
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Engineering & Applied Mathematics
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** RailerRobotics, SkillsUSA

**Description:** Students will apply math, science, and engineering standards to hands-on projects. They will work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and document their work in an engineering notebook.

### Principles of Engineering

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 70551, 70552
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Engineering & Applied Mathematics
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** RailerRobotics, SkillsUSA

**Description:** Students will apply math, science, and engineering concepts to problems that challenge them to explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

## Engineering—Application

### Civil Engineering & Architecture

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 70615-70616
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Engineering & Applied Mathematics
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** SkillsUSA

**Description:** Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3-D architectural design software.

### Engineering Design & Development

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 70611, 70612
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Engineering Design or Principles of Engineering or Teacher Approval
- ⇒ **Pathway(s):** Engineering & Applied Mathematics
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** RailerRobotics, SkillsUSA

**Description:** The knowledge and skills students acquire throughout the Engineering program come together in Engineering Design and Development as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document the design process from problem identification to solution presentation.

## Engineering—Application

### Engineering- Workplace Experience

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 7952
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Student must complete 1-3 STEM or Engineering courses
- ⇒ **Pathway:** Engineering
- ⇒ **Course Fees:** None
- ⇒ **Clubs:** Robotics
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in the fields of STEM and Engineering. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students must submit an application and resume. Students will go through an interview process. Placement is based on open opportunities.





## FACS PATHWAY

The Family Community and Consumer Services pathway focuses on careers relating to meeting the essential needs of people which range from social and emotional wellness to financial and physical health because they are inter-related. Occupations which focus on relationships between and among family members including family counseling, marriage therapy, non-profit management and others related to helping others are a focus but also those related to personal and family financial goal setting, credit counseling and resource support. This is not customer service or the banking professions, but those related to helping people manage their finances or to regain credit stability. This pathway is unique in that the entire human condition is included.

This cluster addresses technical knowledge and skills in a range to topics from nutrition and wellness and family studies to consumer and personal finance and human growth and development. A strong tie to service leadership and advocacy is part of this pathway which enhances empathy and caring, two traits important to this cluster area.

### Hot Jobs

**Healthcare Social Worker**  
**Social & Community Service Manager**  
**Health Education Specialist**  
**Childcare Worker**

### Industry Certifications

None

### Clubs & Organizations

None

## FACS—Introductory

### Introduction to FACS

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 83602
- ⇒ **Grade Levels:** 9,10,11,12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Family, Community & Consumer Services & Teaching/ Training, and Restaurant and Event Management
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This is an introductory class for the area of family and consumer sciences. It is designed to present basic subject matter in all areas of FACS learning: clothing/textiles; resource management; foods and nutrition; interior design, child development, and family relationships. Learning experiences will assist students in understanding themselves, their roles in today's society, and the role of technology at home and at work.

## FACS—Technical

### Culinary Essentials

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 84505
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** Intro to FACS
- ⇒ **Pathway:** Family, Community & Consumer Services & Restaurant & Event Mgt.
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This course provides students with knowledge and skills related to commercial and institutional food service establishments. Course topics range widely, but include sanitation and safety procedures, nutrition and dietary guidelines, food preparation, quantity food production, meal planning and preparation.

[Return to Course Guide Navigation](#)

## Family Studies

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 84701
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Family, Community & Consumer Science & Teaching/ Training
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Family Studies focuses on developing essential parenting skills, nurturing children's development and guiding children's behavior. Course content will include responsibilities and difficulties of parenthood, as well as basic development and care for infants and children. Students will experience a weekend as a parent by taking home an infant simulation doll. Students will gain a better understanding of the field of Early Childhood Education through projects, discussion, guest speakers and group activities. Students will be required to plan, develop, and perform.

## Lifespan Development

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 85405
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Family, Community & Consumer Services, Education & Training,
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

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

## Nutrition and Wellness

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 84501
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Family, Community & Consumer Services, Nutrition & Restaurant/Event Management
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Nutrition and Wellness enables students to analyze the interaction of nutrition, foods, and fitness for overall wellness of individuals and families throughout the lifespan. In this course students will develop nutrition and fitness habits to make wise decisions regarding healthy living and prevention of disease through these practices. As active learners, students develop higher order thinking skills and academic skills in the areas of math, science, language arts and social studies through the evaluation of relevant nutrition and wellness information. This course is recommended for all students regardless of their career cluster or pathway, in order to build basic nutrition and wellness knowledge and skills, and is especially appropriate for students with interest in human services, wellness/fitness, health, or food and nutrition related career pathways.



# HEALTH SCIENCE

---

## Introductory Level

- Intro to Health Care
- Biology
- Chemistry

## Technical Level

- Nutrition & Wellness
- Sports Medicine
- Medical Terminology
- AP Biology
- Anatomy & Physiology
- Emergency Medical Tech (EMT)

## Application Level

- Certified Nursing Assistant (CNA)
- Internship

## HEALTH SCIENCE PATHWAY

---

Health science education prepares students for an introduction to successful careers and informed choices in the health care industry through collaboration among education, the healthcare industry, policy makers and professional organizations. This pathway is centered around technical skills and academic classes that lead to occupations commonly found in hospitals, clinics, dentistry, pharmacy, EMT, patient care, sports medicine, physical/occupational therapy and forensics.

### Hot Jobs

Registered Nurse  
Medical & Health Services  
Manager  
Physician  
Surgeon

### Industry Certifications

CNA  
(Certified Nursing Assistant)  
EMT (Emergency  
Medical Technician)

### Clubs & Organizations

HOSA

## Health Science—Intro.

### Biology

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3531, 3532
- ⇒ **Grade Levels:** 9
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Health Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:**

**Description:** Biology is the study of living organisms. Topics include biochemistry, cell biology, genetics, population genetics, evolution, classification, and ecology. Laboratory experiments and various activities are used to cover topics.

### Chemistry

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3541, 3542
- ⇒ **Grade Levels:** 10, 11
- ⇒ **Pre-Requisites:** Health Science
- ⇒ **Pathway:** Health Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** Chemistry Club

**Description:** This course will emphasize building students' understanding of the fundamental structures and properties of matter. Students will develop core concepts of chemistry based on the periodic table, bonding, kinetic theory, and the nature of matter in solutions, and the mole concept. Concepts are reinforced by numerous laboratory experiments.

### Intro to Healthcare

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 8091
- ⇒ **Grade Levels:** 9,10,11
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** HOSA

**Description:** This is a one semester course for students interested in a career in medicine. Students will explore various careers and will learn about the education and licensure requirements for each field. Guest speakers from NMC Health, Newton Fire/EMS and other area providers will visit students on occasion. Other topics include professional job skills and history of healthcare. The class is held at the Newton High School Health Science Academy Building on NMC Health's campus and school transportation is provided.

## Health Science—Technical

### Anatomy & Physiology

*\*Weighted Course*

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3601, 3602
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Completed Honors Biology and Honors Chemistry; or Completed Human Body Systems with a B or higher.
- ⇒ **Pathway:** Health Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Anatomy and Physiology is a challenging course designed for students considering majoring in the more rigorous medical-related fields such as pre-Vet, pre-Med, pre-physical therapy, or pre-pharmacy. This course is recommended for students considering pursuit of an advanced degree in nursing or becoming a Physician's Assistant. Human structures and the function of those structures from the chemical to organism level will be emphasized.

To succeed, students must commit a minimum of a half hour per day on their own time for homework and studying and work during Seminar or before school may be necessary. This course will count as an Academic Recognition Honors credit.

# Health Science- Technical

## EMT

---

- ⇒ **Credit:** 2.0
- ⇒ **Course Number(s):** 80901, 80902, 80903, 80904
- ⇒ **Grade Levels:** 12 (Must be 18 years old to take state boards)
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** Free tuition. Student is responsible for textbook.
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** HOSA

**Description:** Human Body Systems or Anatomy and Physiology are strongly encouraged and can be taken concurrently.

Concepts of emergency care that prepare an entry-level provider and primary staff from basic life support ambulance services. Information and techniques necessary for certification as an Emergency Medical Technician (EMT) in the State of Kansas and National Registry of EMT.

10 college credit hours through Hutch CC. CLOCK HOURS are mandated by the State Board, students CANNOT miss more than 10% of class time.

Students ENROLLING AND QUALIFYING for dual credit courses who DROP them AFTER April 15 will be assessed a \$25 fine, after June 1 will be assessed a \$50

## Medical Terminology

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 819713
- ⇒ **Grade Levels:** 9,10,11
- ⇒ **Pre-Requisites:** None
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** HOSA

**Description:** This is a one semester course for students interested in a career in medicine. Students will explore various careers and will learn about the education and licensure requirements for each field. Guest speakers from NMC Health, Newton Fire/EMS and other area providers will visit students on

occasion. Other topics include professional job skills and history of healthcare. The class is held at the Newton High School Health Science Academy Building on NMHealth's campus and school transportation is provided.

## Nutrition and Wellness

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 84501
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Family, Community & Consumer Services & Restaurant/Event Management
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Nutrition and Wellness enables students to analyze the interaction of nutrition, foods, and fitness for overall wellness of individuals and families throughout the lifespan. In this course students will develop nutrition and fitness habits to make wise decisions regarding healthy living and prevention of disease through these practices. As active learners, students develop higher order thinking skills and academic skills in the areas of math, science, language arts and social studies through the evaluation of relevant nutrition and wellness information. This course is recommended for all students regardless of their career cluster or pathway, in order to build basic nutrition and wellness knowledge and skills, and is especially appropriate for students with interest in human services, wellness/fitness, health, or food and nutrition related career pathways.

## Sports Medicine

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 80871, 80872
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Human Body Systems or Anatomy and Physiology or concurrent enrollment in Anatomy and Physiology.
- ⇒ **Pathway:** Health Science
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** None
- ⇒ **Clubs:** None

**Description:** This class will expand on topics learned in Anatomy and Physiology including on how they connect to exercise, nutrition, drugs, injury, tissue healing, skeletomuscular system focusing on common injuries, rehabilitation and anatomy. Students will also learn different taping techniques including: Arch, Turf Toe, Ankle, Achilles, Wrist, Thumb, Elbow, and Shoulder Spica. This course is highly recommended for students interested in pursuing careers in athletic training physical therapy, sports medicine or chiropractic medicine. Sports medicine is an elective credit (not a science credit).

## Health Science— App.

### CNA

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 76502
- ⇒ **Grade Levels:** 10-12
- ⇒ **Pre-Requisites:** Requires an Accuplacer reading score of 231+; ACT of 14+; highly recommend Human Body Systems or Anatomy and Physiology be taken before this course.
- ⇒ **Course Fees:** Free tuition. Student responsible for textbook.
- ⇒ **Dual Credit Available:** Yes— Hutch CC
- ⇒ **Clubs:** HOSA

**Description:** Fundamental knowledge of the aging process with emphasis on meeting the physical needs requirements of geriatric residents of health care facilities including ethics, communication, normal and aging body system functions, nutrition, diseases, observation skills, documentation, personal care skills and their adequate performance. Students must pass both theory and clinical portions of the course. Students are required to do clinicals OUTSIDE of school hours please plan accordingly. Students will also take a state board test at the end of the course and if passed, will receive their CNA license.

4.5 College Credit Hours through Hutch CC. CLOCK HOURS are mandated by the State Board of Healing Arts, students CANNOT miss more than 5 hours of class time.

Students ENROLLING AND QUALIFYING for dual credit courses who DROP them AFTER April 15 will be assessed a \$25 fine, after June 1 will be assessed a \$50 fine.

## Health Science Internship

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 7955
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in a student matched career interest. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students must submit an application and resume. Students will go through an interview process. Placement is based on open opportunities.

## CMA

- ⇒ **Credit:** 1 credit (Elective)
- ⇒ **Course Number:** 36156
- ⇒ **Length of Term:** 0.5 semester - spring semester only
- ⇒ **Grade(s):** 11-12
- ⇒ **Prerequisites:** CNA; Requires an Accuplacer reading score of 231+; ACT of 14+; Fundamental knowledge of medications, their use, actions, side effects and dosage; documentation; wound management; and supervision skills for geriatric aides.
- ⇒ **Course Fees:** Textbooks - \$167
- ⇒ **Dual Credit:** Yes
- ⇒ **Clubs:** HOSA

**Description:** This is an HCC course offered at NHS in the Spring semester. Students will study the fundamental knowledge of medications, their use, actions, side effects and dosage; documentation; wound management; and supervision skills for geriatric aides. Students will outline the roles and responsibilities of the medication aide and communicate with and supervise patients to promote therapeutic relations. Course information includes information on medical drugs as well as training on the administration of medical drugs. The student must be 18 when they complete the CMA test at the end of the course.



# INFORMATION TECHNOLOGY PATHWAY

## The Mission of Information Technology Education:

To build linkages to Information Technology occupations for entry level, technical, and professional careers related to the design, development, support and management of hardware, software, multimedia, communication, and systems integration services

## To Accomplish this Mission:

The complete Information Technology education program will support students:

- Through high quality classroom and laboratory instruction
- Development of premier leadership, personal growth, and career success
- Enhanced opportunity to build career skills

We aspire for excellence as we recruit, prepare and encourage individuals to pursue life skills through Information Technology education. We serve the community and inform them about Information Technology, the needs, opportunities and challenges, as well as provide life long career skills.

## Hot Jobs

**Computer Support Specialist**  
**Software Developer**  
**Computer Systems Analyst**  
**Network & Computer Systems Admin**

## Industry Certifications

**CISCO**

## Clubs & Organizations

**E-Sports**

## Information Tech.—Intro.

### Computer Applications I

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 50101
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Network Systems, AV Communications
- ⇒ **Course Fees:** : None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** BPA & E-Sports

**Description:** This class will consist of computer concepts, word processing, spreadsheet, and presentation skills. Students will have the opportunity to test for MOS Certification.

## Infor. Tech.—Technical

### IT Essentials

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 51381, 51382
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Network Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** E-Sports & BPA

**Description:** IT Essentials Basics is a technical level course in the Network Systems pathway. It is designed to provide students with in-depth exposure to computer hardware and operating systems. Course topics include the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Students will learn to assemble and configure a computer, install operating systems and software, and troubleshoot problems. This class will also teach students the skills needed to modify and build computer to meet their interests, such as gaming and video production.

[Return to Course Guide Navigation](#)

## Networking Systems

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 51383, 51384
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** IT Essentials
- ⇒ **Pathway:** Network Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** E-Sports & BPA

**Description:** Networking Systems is a technical level course in the Network Systems pathway. It is designed to provide students with the opportunity to understand and work with hubs, switches, and routers. Students develop an understanding of LAN (local area network), WAN (wide area network), wireless connectivity, and Internet-based communications with a strong emphasis on network function, design, and installation practices. Students acquire skills in the design, installation, maintenance and management of network systems that may help them obtain network certification.

### Router Basics

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 51385, 51386
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** IT Essentials & Networking Systems
- ⇒ **Pathway:** Network Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** E-Sports & BPA

**Description:** This is a technical level course in the Network Systems pathway. Students learn about router components, start-up, and configuration using CISCO routers, switches, and the IOS. These courses also cover TCP/IP protocol, IP addressing, subnet masks, and network troubleshooting.

## Infor. Tech.—Application

### Networking System Workplace Experience

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 51387
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in a student matched career interest. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students must submit an application and resume. Students will go through an interview process. Placement is based on open opportunities.





# MACHINING

---

**Introductory Level**

- Intro to Industrial Technology

**Technical Level**

- Principles of Precision Machining & CNC
- Precision Machining & CNC I
- Computer-Aided Manufacturing (CAM)

**Application Level**

- Precision Machining & CNC II
- Internship

## MANUFACTURING—MACHINING PATHWAY

---

Mission: To prepare students with the knowledge and skills necessary for continued education and, ultimately, a successful career in manufacturing, mechanical drafting, and skilled mechanical trades occupations.

The Manufacturing Pathways of Study enable students:

- To obtain necessary skills through high quality classroom, laboratory, and field instruction
- To earn professional certifications required for employment
- To transition to postsecondary level institutions for additional education opportunities

### Hot Jobs

Industrial Machinery  
 Mechanics  
 Industrial Production  
 Managers  
 Machinist  
 CNC Tool Operator

### Industry Certifications

Machining Certificate B  
 (Hutch CC)  
 NIMS

### Clubs & Organizations

SkillsUSA

## Machining- Introductory

### Intro to Industrial Tech

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 70105, 70106
- ⇒ **Grade Levels:** 9, 10
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Construction & Design, Manufacturing– Welding, Manufacturing– Welding
- ⇒ **Course Fees:** \$25.00
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Introduction to Industrial Technology is designed to introduce students to a variety of skills related to materials and processes. The module based course will cover the basic concepts in circuitry, computer aided design, machining, welding, and woodworking, while learning to use digital fabrication tools such as 3D printers, CNC routers, and Laser engravers/cutters. Project management tools will be utilized to help students learn and practice time management skills.

## Machining— Technical

### Computer-Aided Manufacturing

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 82441,82442
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application Required, Precision Machining and CNC Fundamentals I.
- ⇒ **Pathway(s):** Manufacturing - Machining
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes– Hutch CC
- ⇒ **Clubs:** SkillsUSA

**Description:** This is a comprehensive technical level course designed to instruct students in the knowledge and skills needed to perform computer-aided machining tasks.

### Precision Machining & CNC Fundamentals 1

---

- ⇒ **Credit:** 4.0
- ⇒ **Course Number(s):** 82291-82292-82293-82294-82295-82296-82297-82298
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application, Intro to Industrial Tech & Principles of Precision Machining
- ⇒ **Pathway(s):** Manufacturing - Machining
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** SkillsUSA

**Description:** Areas of study will include safety, bench work, measuring and layout, lathe work, milling drilling, grinding materials, blueprint reading, introduction to CNC and modern manufacturing methods. Selecting the proper materials and tools, planning the project sequence according to the blueprints or written specifications, and forming the metal product while holding accuracies to within thousandths of an inch are skills obtained in this class. The understanding of dimensions, units of measure and measuring instruments is necessary for proficiency in machine technology. Jr. & Sr. concurrent enrollment with Hutch CC – NO TUITION. Eligible for local Fine Arts credit. Qualifies for Math credit.

### Principles of Precision Machining

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 82283, 82284
- ⇒ **Grade Levels:** 9, 10
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Manufacturing - Machining
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This course examines how parts are manufactured using conventional machining equipment such as lathes and mills. This class is a

combination of hands-on and theory in producing products on precision manual equipment and then progress to the more advanced CNC machine tools in the production lab. This class is first in the progression toward college credit and the completion of the Precision Machining program.

## Machining— Application

### Precision Machining & CNC Fundamentals 2

---

- ⇒ **Credit:** 4.0
- ⇒ **Course Number(s):** 82401-82402-82403-82404-82405-82506-82407-82408
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application & Precision Machining & CNC Fundamentals 1
- ⇒ **Pathway(s):** Manufacturing - Machining
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** SkillsUSA

**Description:** Emphasis will be placed on blueprint reading and related math skills. Instruction will be given on CNC (computer controlled machines), and SPC (statistical process control), a quality control system used in industry. This program will prepare students for direct entry into manufacturing or can also serve as recommendation for students wishing to pursue an engineering degree or other advanced technical training. Jr. and Sr. concurrent enrollment with Hutch CC – NO TUITION. Eligible for local Fine Arts credit. Qualifies for Math credit.



## MANUFACTURING—WELDING PATHWAY

Mission: To prepare students with the knowledge and skills necessary for continued education and, ultimately, a successful career in manufacturing, mechanical drafting, and skilled mechanical trades occupations.

The Manufacturing Pathways of Study enable students:

- To obtain necessary skills through high quality classroom, laboratory, and field instruction
- To earn professional certifications required for employment
- To transition to postsecondary level institutions for additional education opportunities

### Hot Jobs

Industrial Machinery  
Mechanics  
Industrial Production  
Managers  
Welder  
Fabricator

### Industry Certifications

Welding Certificate B  
(Hutch CC)  
AWS

### Clubs & Organizations

SkillsUSA

## Welding- Introductory

### Intro to Industrial Tech

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 70105, 70106
- ⇒ **Grade Levels:** 9, 10
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway(s):** Construction & Design, Manufacturing– Welding, Manufacturing– Welding
- ⇒ **Course Fees:** \$25.00
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Introduction to Industrial Technology is designed to introduce students to a variety of skills related to materials and processes. The module based course will cover the basic concepts in circuitry, computer aided design, machining, welding, and woodworking, while learning to use digital fabrication tools such as 3D printers, CNC routers, and Laser engravers/cutters. Project management tools will be utilized to help students learn and practice time management skills.

### Pre-Vocational Ag Welding

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 8141, 8142
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Agriscience and/or Modern Ag Mech
- ⇒ **Pathway(s):** Animal Science, Power, Structural & Technical Systems
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** FFA

**Description:** This course is designed for students wanting to explore the career of professional welder. Pre-Voc Ag Welding is competency-based (achieve skill levels at the individual's pace) covering shop safety, arc welding, MIG welding and Plasma Arc and CNC Plasma Cutting. Students will be introduced to the FFA organization, have the opportunity to become an active member and compete in related CDEs and be encouraged to develop SAEs.

equipment operations and management, as well as the proper handling and use of biological materials. Labs procedures focusing on the isolation and purification of DNA and RNA, analysis of genetic samples using electrophoresis and PCR technologies, the production and use of antibodies and protein detections, as well as the importance of microbe detections in lab and industry settings, will all be included. This course is part of the Ag Academy science progression. This course does count for science credit. Juniors in the Ag Academy get preference for this class. All other Juniors are accepted when space is available.

## Welding— Application

### Welding Technology 1

- ⇒ **Credit:** 4.0
- ⇒ **Course Number(s):** 8301, 8302, 8303, 8304, 8305, 8306, 8307, 8308
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application & Intro to Industrial Technology
- ⇒ **Pathway(s):** Manufacturing - Welding
- ⇒ **Course Fees:** \$200.00
- ⇒ **Dual Credit Available:** Yes– Hutch CC
- ⇒ **Clubs:** SkillsUSA

**Description:** Welding I and II make up a two-year career preparatory program designed to place students directly into the welding industry. Students enroll concurrently as a Hutch CC (no tuition) student to receive college credit and potentially earn a certificate. Students enroll Monday through Friday for 3 hours per day. This comprehensive welding program covers courses in both the theory and practical applications of Stick, Mig, Tig, oxyacetylene cutting, and shop safety. Related areas that a student will complete in welding include air carbon arc gouging, plasma arc cutting,

safe use of manufacturing equipment, shop math, and metallurgy. Positive work behaviors such as regular attendance, leadership, teamwork and communication skills will be emphasized. These and other work skills will be accomplished through the student's participation in the Skills USA Student Organization. Seniors who enroll in Welding I have the option of completing their second year through Hutch CC (Newton Center). Students are expected to provide their own work clothing and personal tools (see equipment list). \$100 material fee required each year.

### Welding Technology 2

- ⇒ **Credit:** 4.0
- ⇒ **Course Number(s):** 8311, 8312, 8313, 8314, 8315, 8316, 8317, 8318
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application & Welding 1
- ⇒ **Pathway(s):** Manufacturing - Welding
- ⇒ **Course Fees:** \$200.00
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** SkillsUSA

**Description:** Welding II meets Monday through Friday for 3 hours per day and covers courses in Gas Metal Arc Welding (MIG), Gas Tungsten Arc Welding (TIG), blueprint reading, plasma arc cutting, pulse Mig welding, Computer Numerical Control cutting machine techniques, Metallurgy, and robotic welding operations. Students will demonstrate shop safety, positive work behaviors, communication skills and employment skills. Students will also gain experience on live welding projects. \$100 materials fee required per year due at the beginning of the courses, Jr. and Sr. concurrent enrollment with Hutch CC – NO TUITION. Qualifies for Math credit.

Hutch CC college Courses include: Welding Blueprint Reading, Shielded Metal Arc Welding II, Gas Metal Arc Welding II, Gas Tungsten Arc Welding II, Industrial Robotic Welding, and/or Flux Cored Arc Welding, Welding Inspection and Qualification. Total College Credits = 16



# MARKETING

---

## Introductory Level

- Business Essentials

## Technical Level

- Marketing I
- Accounting I
- Entrepreneurship/YE
- Web Page Design
- Business Law

## Application Level

- Small Business Management
- Internship

## MARKETING PATHWAY

---

Marketing Cluster is designed to prepare learners for careers and/or continuing education opportunities in planning, managing and performing marketing activities to reach organizational objectives. Students will learn skills in planning, managing, and performing marketing activities to reach organizational objectives such as brand management, professional sales, merchandising, marketing communications and market research.

The Marketing Cluster pathway was based primarily on the national business, management and entrepreneurship career cluster pathways and responsive to Kansas business and industry needs.

### Hot Jobs

**Sales Manager**  
**Market Research Analyst**  
**Advertising Sales Agent**  
**Marketing Manager**

### Industry Certifications

**None**

### Clubs & Organizations

**BPA**  
**DECA**

## Marketing- Introductory

### Business Essentials

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 50301
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Business Finance & Marketing, AV Communications, Restaurant & Event Management, Mobile Equipment Maintenance
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** BPA

**Description:** This introductory course is designed to give students an overview of the business field but also how business is involved in everyday life and all careers. Students will examine current events to determine their impact on business and industry and legal and ethical issues. Students will identify employability and personal skills needed to obtain a career and be successful in the workplace. As students learn about different types of businesses, they will analyze business practices to determine ethical and social responsibilities.

## Marketing— Technical

### Accounting 1

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 5033, 5034
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Business Essentials
- ⇒ **Pathway:** Business Finance
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes
- ⇒ **Clubs:** BPA

**Description:** This course teaches the fundamental accounting cycles for two types of businesses. The student learns how to operate a service business and the second business that students learn is the organization of a merchandising business as a partnership such as a sporting goods store or an auto parts store. Other topics included are careers, checking accounts, small business management, and payroll records. Students receive college credit through Hutch CC.

[Return to Course Guide Navigation](#)

## Entrepreneurship/YEK

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 8061
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Business Essentials
- ⇒ **Pathway:** Business Finance & Marketing
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** BPA

**Description:** Entrepreneurship will teach the skills and approaches to successfully evaluate and create new business opportunities. Emphasis is placed on projects and student-led learning. Students will engage in team building and collaborative activities.

## Marketing

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 80391, 80392
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Business Essentials
- ⇒ **Pathway:** Marketing & Restaurant & Event Management
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** BPA

**Description:** Students learn about the expanding field of marketing, marketing careers, promotion, ethics, and product development. Students will learn about delivering value in satisfying customer needs and wants, determine target markets, and decide upon appropriate products, services, and programs to serve these markets. Topics include branding and product development, pricing strategies, marketing research, promotion, supply chain management and service marketing.

## Web Page Design

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 50703
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Marketing
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** E-Sports & BPA

**Description:** Web Page Design teaches students how to design web sites by introducing them to and refining their knowledge of site planning, page layout, graphic design, and the use of markup languages—such as Extensible Hypertext Markup, JavaScript, Dynamic HTML, and Document Object Model—to develop and maintain a web page. This course may also cover security and privacy issues, copyright infringement, trademarks, and other legal issues relating to the use of the Internet. Advanced topics may include the use of forms and scripts for database access, transfer methods, and networking fundamentals.

## Marketing— Application

### Small Business Management

- ⇒ **Credit:** 2.0
- ⇒ **Course Number(s):** 8075, 8076, 8077, 8078 (Double Block)
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Business Essentials & Teacher Signature Required
- ⇒ **Pathway:** Marketing
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** n/a

**Description:** This course covers similar topics as Marketing-Comprehensive courses but places a particular emphasis on business management and entrepreneurship, providing exposure to common techniques and problems of management. Students will participate in interactive instruction and will develop communication, research and problem solving skills as they relate to business. Learning is focused on applied entrepreneurial opportunities and careers as well as all aspects of the operation/management of small businesses. The format of this class promotes a strong community link and students will spend time working directly with community mentors. Additionally, students will actively participate in the operation of an in-school business. They will also research, develop, write and present the marketing project of their choice. DECA membership is required (including payment of dues). Attendance at both regional and state competitions is also required.

### Marketing Workplace Experience

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 7956
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application & Marketing
- ⇒ **Pathway:** Marketing
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in the field of Marketing. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students will go through an interview process. Placement is based on open opportunities.



## TEACHING & TRAINING PATHWAY

The Education and Training Cluster focuses on the development of teachers and trainers in today's society. Kansas has created one pathway for this cluster titled Teach and Train. The pathway design sheets found under each pathway link will provide access to the course competencies, which direct the knowledge and skill development.

The Teach and Train pathway focuses on the careers relating to all educational careers. Content includes general theory and practice of learning and teaching as well as the planning of educational activities across multiple disciplines. This pathway specifically links to K-12 educational settings and related training opportunities in traditional schools and in the community.

### Hot Jobs

School Teacher  
 Special Education Teacher  
 School Counselor  
 School Administrator

### Industry Certifications

None

### Clubs & Organizations

Circle of Friends



## Teaching— Introductory

### Introduction to FACS

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 83602
- ⇒ **Grade Levels:** 9,10,11,12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Family, Community & Consumer Services & Teaching/ Training, and Restaurant and Event Management
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This is an introductory class for the area of family and consumer sciences. It is designed to present basic subject matter in all areas of FACS learning: clothing/textiles; resource management; foods and nutrition; interior design, child development, and family relationships. Learning experiences will assist students in understanding themselves, their roles in today's society, and the role of technology at home and at work.

## Teaching— Technical

### Family Studies

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 84701
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Family, Community & Consumer Science & Teaching/Training
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Family Studies focuses on developing essential parenting skills, nurturing children's development and guiding children's behavior. Course content will include responsibilities and difficulties of parenthood, as well as basic development and care for infants and children. Students will experience a weekend as a parent by taking home an infant simulation doll, a lesson for kindergarten students. Students will gain a better understanding of the field of Early Childhood Education through projects, discussion, guest speakers and group activities. Students will be required to plan, develop, and perform

[Return to Course Guide Navigation](#)

## Lifespan Development

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 85405
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Family, Community & Consumer Services, Education & Training,
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

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

### Teaching as a Career

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 86103, 86104
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Family Studies or Lifespan Development. Can be concurrently enrolled.
- ⇒ **Pathway:** Teaching & Training
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Students with an interest in teaching as a career will learn about diverse learners and the different types of learners that teachers have in a classroom and how to teach to those students. They will learn different ways to enhance instruction in a classroom and have appropriate assessments and evaluations for students. Students will also learn the importance of physical space and climate for a classroom while focusing on actual teaching skills. It will be a great addition and help those students that are already participating in internships to expand their skills and knowledge of the teaching field.

## Teaching— Application

### Teaching Internship

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 86105, 86106
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application & Teaching as a Career
- ⇒ **Pathway:** Teaching & Training
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** Education Methodology course prepares students to teach and guide others. These courses typically provide opportunities for students to develop their own teaching objectives, to design lesson plans, and to experience teaching in a controlled environment. Students examine and practice teaching strategies, learning styles, time management and planning strategies, presentation and questioning skills, classroom management, and evaluation techniques. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students will go through an interview process.



# Restaurant & Event Management Pathway (Culinary Arts)

## Hospitality and Tourism (CTE Career Cluster)

This career cluster covers a range of careers from culinary arts and event management to lodging and travel/tourism. The Travel and Tourism Pathway is linked more commonly with the Business department, where the Restaurant and Event Management pathway is linked within the Family and Consumer Sciences department. It is notable that courses taught in both departments are found in both pathways.

## Hot Jobs

- Food Service Manager**
- Chef/Head Cook**
- Meeting & Convention Planner**
- Operations Manager**

## Industry Certifications

**ServeSafe**

## Clubs & Organizations

**None**

## Culinary Arts- Intro.

### Business Essentials

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 50301
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Business Finance & Marketing, AV Communications, Restaurant & Event Management, Mobile Equipment Maintenance
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** BPA & DECA

**Description:** This introductory course is designed to give students an overview of the business field but also how business is involved in everyday life and all careers. Students will examine current events to determine their impact on business and industry and legal and ethical issues. Students will identify employability and personal skills needed to obtain a career and be successful in the workplace. As students learn about different types of businesses, they will analyze business practices to determine ethical and social responsibilities.

### Introduction to FACS

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 83602
- ⇒ **Grade Levels:** 9,10,11,12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Family, Community & Consumer Services & Teaching/Training, and Restaurant and Event Management
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This is an introductory class for the area of family and consumer sciences. It is designed to present basic subject matter in all areas of FACS learning: clothing/textiles; resource management; foods and nutrition; interior design, child development, and family relationships. Learning experiences will assist students in understanding themselves, their roles in today's society, and the role of technology at home and at work.

[Return to Course Guide Navigation](#)

## Culinary Arts– Technical

### Baking & Pastry

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 84509
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Restaurant & Event Mgt.
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This course is designed to give a thorough overview to the baking and pastry portion of the overall restaurant and event management pathway. This class provides students with an understanding of the ingredients and methods used in creating breads, pastries, cookies and other desserts. Students learn how dairy, fruits, flour and chocolate come into play with pastry and baking. The fundamentals of dough and basic decorating skills are covered as well as baking equipment and baking costs.

### Culinary Arts 1

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 84507, 84508
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Culinary Essentials or Baking and Pastry
- ⇒ **Pathway:** Restaurant & Event Mgt.
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** Yes- 4 Credit Hours ( 3 Credit Hours for the course and 1 Credit hour for Safety and Sanitation course)
- ⇒ **Clubs:** None

**Description:** This course offers an opportunity for students with a serious interest in learning about careers in the culinary and restaurant industry. Students will be trained in ServSafe regulations that apply to workplace safety. This course will include the effective use of lab organization and communication

skills. The class will also build on Culinary Essentials, Baking and Pastry and Nutrition and Wellness classes. Students will develop techniques and execute menu plans while demonstrating a variety of cooking methods with sauces, fruits, vegetables, grains and proteins. Certifications: ServeSafe Manager.

### Culinary Essentials

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 84505
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Family, Community & Consumer Services & Restaurant/Event Management.
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** This course provides students with knowledge and skills related to commercial and institutional food service establishments. Course topics range widely, but include sanitation and safety procedures, nutrition and dietary guidelines, food preparation, quantity food production, meal planning and preparation.

### Entrepreneurship/YEK

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 8061
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Business Essentials
- ⇒ **Pathway:** Business Finance & Marketing
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** BPA

**Description:** Entrepreneurship will teach the skills and approaches to successfully evaluate and create new business opportunities. Emphasis is placed on projects and student-led learning. Students will engage in team building and collaborative activities.

## Culinary Arts– Technical

### Marketing

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 80391, 80392
- ⇒ **Grade Levels:** 10, 11, 12
- ⇒ **Pre-Requisites:** Business Essentials
- ⇒ **Pathway:** Marketing & Restaurant & Event Management
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** BPA

**Description:** Students learn about the expanding field of marketing, marketing careers, promotion, ethics, and product development. Students will learn about delivering value in satisfying customer needs and wants, determine target markets, and decide upon appropriate products, services, and programs to serve these markets. Topics include branding and product development, pricing strategies, marketing research, promotion, supply chain management and service marketing.

### Nutrition and Wellness

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 84501
- ⇒ **Grade Levels:** 9, 10, 11, 12
- ⇒ **Pre-Requisites:** None
- ⇒ **Pathway:** Family, Community & Consumer Services, Health Science & Restaurant/Event Management
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No
- ⇒ **Clubs:** None

**Description:** Nutrition and Wellness enables students to analyze the interaction of nutrition, foods, and fitness for overall wellness of individuals and families throughout the lifespan. In this course students will develop nutrition and fitness habits to make wise decisions regarding healthy living and prevention of disease through these practices. As active learners, students develop higher order thinking skills and academic skills in the areas of math, science, language arts and social studies through

the evaluation of relevant nutrition and wellness information. This course is recommended for all students regardless of their career cluster or pathway, in order to build basic nutrition and wellness knowledge and skills, and is especially appropriate for students with interest in human services, wellness/fitness, health, or food and nutrition related career pathways.

## Culinary Arts– Application

### Career Connections

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 85543, 85544
- ⇒ **Grade Levels:** 11, 12
- ⇒ **Pre-Requisites:** Application
- ⇒ **Course Fees:** None
- ⇒ **Dual Credit Available:** No

**Description:** A work-based learning experience in a student matched career interest. Students will work with a placement that matches their career interest and will gain real world experience in this field. Students will experience problem solving and critical thinking skills in the workplace setting. This is a work-based learning experience and completion of time logs, weekly reflections, meetings, and completion of a digital portfolio is required. Students must submit an application and resume. Students must submit an application and resume. Students will go through an interview process. Placement is based on open opportunities.

# NEWTON HIGH SCHOOL ACADEMIES & SPECIAL PROGRAMS

---



# AG CAREER ACADEMY COURSE LIST

English    Math    Science    Social Studies    Other    Agriculture

	English	Math	Science	Social Studies	Other	Agriculture
9th	English 1	Algebra 1	Biology	Elective	PE, Computer Apps	Tech Ag.
10th	English 2	Geometry	Ag Chemistry	World History	PE, Speech Integrated in all Academy Courses	Plant and Animal Science
11th	English 3	Algebra 2	Biotech in Ag.	U.S. History	Agribusiness meets finance req. for graduation	Plant and Animal Science
12th	English 4	Elective	Elective	Government and Sociology		Ag Internship and Ag Leadership

Newton High School launches its first career academy in the Fall of 2018. The academy focuses on groups of sophomore, junior and senior students, who take their core academics along with an agriculture class together and learn how agriculture impacts our lives through the instruction in their classes.

## Hot Jobs

Farming, Ranching, and other Ag Managers  
First-Line Supervisors of Landscaping and Lawn Service

## Industry Certifications

OSHA 10

## Clubs & Organizations

FFA





# HEALTH SCIENCE ACADEMY COURSE LIST

	English	Science	Math	Social Studies	Other	Health Science
9th	English 1	Biology	Algebra 1	Elective	PE, Computer Apps	Intro to Health Care, Med. Term
10th	English 2	Chemistry	Geometry	World History	PE, Speech	Human Body Systems
11th	English 3	Other Science	Algebra 2	U.S. History	Financial Management	Anatomy and Physiology, Academy elective
12th	English 4	Elective	Elective	Government	Psychology	Healthcare Work Experience, CNA, or EMT

## Health Science Academy

With growth in local demand for health care workers and student interest survey data, Newton High School launched its first career academy in the Fall of 2021. The academy focuses on groups of sophomore students, who take several core courses that have dedicated health science connections throughout.



### Hot Jobs

Registered Nurse (RN)  
 Medical & Health Manager  
 Clinical Lab Tech  
 Dental Hygienists

### Industry Certifications

CNA (Certified Nursing Assistant)  
 EMT (Emergency Medical Technician)

### Clubs & Organizations

HOSA



## Computer Based Learning (CBL)

### Course Guide

---

This section is **NOT** to be used during the Pre-Enrollment process. All CBL courses require counselor approval and will be added after the pre-enrollment process. Do NOT pre-enroll in CBL courses. This is informational only.





## CBL Math

### CBL - Algebra I A & B

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 99681 & 99682
- ⇒ **Edgenuity Equivalent:** KS - Algebra I A & B

**Description:** Algebra I courses include the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic equations.

### CBL - Algebra II A & B

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 99703 & 99704
- ⇒ **Edgenuity Equivalent:** KS - Algebra II A & B

**Description:** Algebra II course topics typically include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents. This is the 1st semester of a 2 semester course.

### CBL - Honors Alg II A & B

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 96117 & 96118
- ⇒ **Edgenuity Equivalent:** Algebra II Honors - MA3111H A & B

**Description:** This course is similar in scope to Algebra II. content and will be greater in depth. Multiple representations integrated with geometric concepts, statistical applications will be used. Greater emphasis will be placed on applications

and multiple step problems. Students enrolled in this course should have strong mathematical and problem-solving skills. A graphics calculator is required for this course (TI-83, TI-83 Plus, TI-83 Silver Edition, TI-84 Plus, TI-84 Silver Edition).

### CBL - Prin of Alg/Geometry A & B

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 96115 & 96116
- ⇒ **Edgenuity Equivalent:** PAG A & B - Principles of Algebra & Geometry (Common Core Math I & IB)

**Description:** Enrollment in this course is based on teacher recommendation. This course combines the study of some pre-algebra and algebra topics with introductory geometry topics. Units of study include the study of formulas, algebraic expressions, first degree equations and inequalities, the rectangular coordinate system, area, perimeter, and volume of geometric figures, and properties of triangles and circles.

### CBL - Geometry A & B

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 96721 & 96722
- ⇒ **Edgenuity Equivalent:** KS - Geometry A & B

**Description:** Geometry courses, emphasizing an abstract, formal approach to the study of geometry, typically include topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system

### CBL - Honors Geometry A & B

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 96723 & 96724
- ⇒ **Edgenuity Equivalent:** Geometry Honors - MA3110H A & B

**Description:** Geometry courses, emphasizing an abstract, formal approach to the study of geometry, typically include topics such as properties of plane and solid figures; deductive methods of reasoning and use

of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.

### CBL - Probability & Statistics

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 99581 & 99582
- ⇒ **Edgenuity Equivalent:** Concepts in Probability & Statistics - MA3120 A & B - IC

**Description:** Probability and Statistics courses introduce the study of likely events and the analysis, interpretation, and presentation of quantitative data. Course topics generally include basic probability and statistics: discrete probability theory, odds and probabilities, probability trees, populations and samples, frequency tables, measures of central tendency, and presentation of data (including graphs). Course topics may also include normal distribution and measures of variability.

### CBL - Pre-Calc w/ Trig

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 3137 & 3138
- ⇒ **Edgenuity Equivalent:** Common Core Precalculus - MA3112 A & B-IC

**Description:** Precalculus with Trigonometry is similar in scope and sequence to FST. This course will cover the same topics of the FST course, but in greater depth and at a faster pace. This is a good precursor to the AP Calculus course. Additional topics to be studied include trig identities, a more in depth study of polynomial functions, solving rational inequalities, absolute value inequalities, and an introduction to limits of functions. A graphics calculator is required: (TI-83 or TI-84).

## CBL English Language Arts

### CBL - Language Arts I A & B

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 96161 & 96162
- ⇒ **Edgenuity Equivalent:** KS - English Language Arts 9 A & B

**Description:** This course introduces concepts and develops abilities in the student's understanding of literature and the English language. There is an emphasis on skills in literature, composition, grammar, and vocabulary. The course stresses paragraphs and short writings. A focus is to develop basic skills necessary to be successful in general English courses throughout high school.

### CBL - Language Arts II A & B

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 96165 & 96166
- ⇒ **Edgenuity Equivalent:** KS - English Language Arts 10 A & B

**Description:** This course deepens the student's understanding of literary types; short stories, novels, poetry, nonfiction and drama are studied through selected readings. In addition to understanding the literature, students will write in response to the literature, demonstrating composition skills. There is an emphasis on grammar and vocabulary.

### CBL - Language Arts III A & B

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 96167 & 96168
- ⇒ **Edgenuity Equivalent:** KS - English Language Arts 11 A & B

**Description:** This course emphasizes close reading and written analysis of themes in American Literature. Student comprehension of their assigned reading is assessed by writing and traditional examinations. Students are expected to construct written evidence of the results

of their close reading and analysis of tests. Students will construct a written research project. Student writing skills are expected to demonstrate a level of competence consistent with the Kansas State Writing Assessment indicators and consistently score higher than two on any six-trait writing evaluation rubric.

### CBL - Language Arts IV A & B

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 96169 & 96170
- ⇒ **Edgenuity Equivalent:** KS - English Language Arts 12 A & B

**Description:** General English 4 is a survey course designed to prepare students to be successful in their postsecondary plans. Areas of emphasis include the reading of both fiction and nonfiction literature and writing for academic as well as vocational purposes.

### CBL - Honors English II A & B

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 96175 & 96176
- ⇒ **Edgenuity Equivalent:** Language Arts 10 Honors - ELA3010H A & B

**Description:** Students must sign and submit a "summer reading and writing policy" form and complete summer reading and writing prior to the beginning of the school year. Honors English II has a stronger emphasis on and higher expectation for composition and vocabulary usage than General English II. Students will read literature selections of greater complexity. New grammar concepts are taught. The student must have a strong understanding of all concepts taught in English I.

## CBL Social Science

### CBL - US History Comp I A & B

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 96141 & 96142
- ⇒ **Edgenuity Equivalent:** KS- US History A & B

**Description:** U.S. History—Comprehensive courses provide students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. These courses typically include a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement. This is the 1st semester of a 2 semester course.

### CBL - World History A & B

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 96171, 96172
- ⇒ **Edgenuity Equivalent:** KS- US History A & B

**Description:** Modern World History courses provide an overview of the history of human society in the past few centuries—from the Renaissance period, or later, to the contemporary period—exploring political, economic, social, religious, military, scientific, and cultural developments. This is the 1st semester of a 2 semester course.

## CBL - Honors

### World History A & B

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 99842 & 99843
- ⇒ **Edgenuity Equivalent:** Survey of World History Honors - SS3310H A & B

**Description:** This course covers the economic, political, civic, geographic, and cultural factors of this time period in more depth and at a faster pace than World History 1400 to present course. More emphasis will be placed on primary source analysis and developing writing skills. This course is a good precursor to the Advanced Placement United States History Course.

### CBL - Economics

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 9608
- ⇒ **Edgenuity Equivalent:** KS - Economics

**Description:** Economics courses provide students with an overview of economics with primary emphasis on the principles of microeconomics and the U.S. economic system. These courses may also cover topics such as principles of macroeconomics, international economics, and comparative economics. Economic principles may be presented in formal theoretical contexts, applied contexts, or both.

### CBL - Government

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 9606
- ⇒ **Edgenuity Equivalent:** KS - Government (semester)

**Description:** U.S. Government—Comprehensive courses provide an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in

the democratic process. These courses may examine the structure and function of state and local governments and may cover certain economic and legal topics.

### CBL - Psychology

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 9965
- ⇒ **Edgenuity Equivalent:** EL 2084

**Description:** Psychology courses introduce students to the study of individual human behavior. Course content typically includes (but is not limited to) an overview of the field of psychology, topics in human growth and development, personality and behavior.

### CBL - Sociology

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 9964
- ⇒ **Edgenuity Equivalent:** EL 1120

**Description:** Sociology courses introduce students to the study of human behavior in society. These courses provide an overview of sociology, generally including (but not limited to) topics such as social institutions and norms, socialization and social change, and the relationships among individuals and groups in society.

### CBL - World Geography

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 9963
- ⇒ **Edgenuity Equivalent:** KS - World Geography (semester)

**Description:** Students will examine the relationships among people, places, and environments that result in patterns on the Earth's surface. Students will use the tools and methods of geography to study the principal regions of the world: the Americas, Europe and Eurasia, North Africa and the Middle East, Sub-Saharan Africa, and Asia. In addition, students will also describe the influence of geography on events of the past and present, analyze how location impacts economic activities in different economic

systems throughout the world, compare how components of culture shape the characteristics of regions, and analyze the impact of technology and human modifications on the physical environment.

## CBL Science

### CBL - Earth Science I A & B

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 96135 & 96136
- ⇒ **Edgenuity Equivalent:** KS - Earth & Space Science A & B

**Description:** Earth Science courses offer insight into the environment on earth and the earth's environment in space. While presenting the concepts and principles essential to students' understanding of the dynamics and history of the earth.

### CBL - Environmental Science A & B

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 96133 & 96134
- ⇒ **Edgenuity Equivalent:** Environmental Science - SC2028 A & B

**Description:** Environmental Science is an interdisciplinary course covering a wide variety of topics including biology, physics, geology, ecology, chemistry, geography, astronomy, meteorology, oceanography, and engineering. The course also considers ways in which human populations affect our planet and its processes. Of special emphasis is the concept of sustainability as a means of using resources in a way that ensures they will always be around us.

## CBL - Life Science A & B

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 99711 & 99712
- ⇒ **Edgenuity Equivalent:** Life Science - SC3206 A & B

**Description:** This full-year middle school course focuses on introducing students to the diversity of life found on our planet. The course includes an overview of scientific principles and procedures, and leads students toward a clearer understanding of cells and heredity, the five kingdoms, human body systems, and ecology. As students refine and expand their understanding of life science, they will apply their knowledge in investigations that require them to ask questions and explore the world around them. Throughout the course, students will also solve problems, reason abstractly, and learn to think critically.

## CBL - Physical Science I A & B

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 96131 & 96132
- ⇒ **Edgenuity Equivalent:** KS - Physical Science A & B

**Description:** Physical Science courses involve study of the structures and states of matter. Typically (but not always) offered as introductory survey courses, they may include such topics as forms of energy, wave phenomenon, electromagnetism, and physical.

## CBL - Biology A & B

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 96137 & 96138
- ⇒ **Edgenuity Equivalent:** KS - Biology A & B

**Description:** Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy. This is the 1st Semester of a 2 semester course.

[Return to Course Guide Navigation](#)

## CBL - Chemistry A & B

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 96191 & 96192
- ⇒ **Edgenuity Equivalent:** KS - Chemistry A & B

**Description:** Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gasses; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied.

## CBL - Physics A & B

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 96193 & 96194
- ⇒ **Edgenuity Equivalent:** KS - Physics A & B

**Description:** Physics seeks to describe and predict natural events. This course will discuss the basics in fields of physics such as kinematics, dynamics, electricity, and waves (both sound and light). Students in physics will learn how to think critically, in a scientific manner, about the physical environment. Problem solving skills are emphasized. Units are based around themes that help relate physics to real life situations.

## CBL Electives

### CBL - Art Appreciation A & B

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 9605 & 96016
- ⇒ **Edgenuity Equivalent:** Art Appreciation - EL1086 A & B

**Description:** Art Appreciation courses introduce students to the many forms of art and help them form an aesthetic framework through which they can judge and critique art of various ages and cultures. These courses also explore the place and significance of art in our society.

## CBL - Art History A & B

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 96013 & 96014
- ⇒ **Edgenuity Equivalent:** Art History I - EL4002 A & B

**Description:** Art History courses introduce students to significant works of art, artists, and artistic movements that have shaped the art world and have influenced or reflected periods of history. These courses often emphasize the evolution of art forms, techniques, symbols, and themes.

## CBL - Business Essentials

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 99945
- ⇒ **Edgenuity Equivalent:** Introduction to Business - EL3501 A

**Description:** Career management is a semester-length high school elective course that assists students in their preparation for career selection. The course is designed to improve workforce skills needed in all careers including:

Communication, leadership, teamwork, decision making, problem solving, goal setting, time management.

Students will complete activities that help identify personal interests, aptitudes, and learning styles. Students will use results of self-assessments to determine careers that may prove personally satisfying.

## CBL - Career Essentials

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 9599
- ⇒ **Edgenuity Equivalent:** Career Planning & Development - EL4222 A

**Description:** Career Exploration courses help students identify and evaluate personal goals, priorities, aptitudes, and interests with the goal of helping them make informed decisions about their careers. These courses expose students to various sources of information on career and training options and may also assist them in developing job search and employability skills.

## CBL - Careers Health Sciences A & B

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 99990 & 999990
- ⇒ **Edgenuity Equivalent:** Introduction to Health Science - EL3601 A & B

**Description:** This course is an overview of health careers and overriding principles central to all health professions. The course provides a foundation for further study in the field of health science. When students complete the course, they will be able to discuss the potential career choices and have an understanding of basic concepts that apply to these different choices.

## CBL - Computer Applications

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 99813
- ⇒ **Edgenuity Equivalent:** Computer Applications - Office 2016 - EL3520

**Description:** In Computer Applications courses, students acquire knowledge of and experience in the proper and efficient use of previously written software packages. These courses explore a wide range of applications, including (but not limited to) word-processing, spreadsheet, graphics, and database programs, and they may also cover the use of electronic mail and desktop publishing.

## CBL - Finance

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 9603
- ⇒ **Edgenuity Equivalent:** Personal Finance - EL3403

**Description:** Consumer Economics/Personal Finance courses provide students with an understanding of the concepts and principles involved in managing one's personal finances. Topics may include savings and investing, credit, insurance, taxes and social security.

## CBL - Fitness

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 9602
- ⇒ **Edgenuity Equivalent:** Lifetime Fitness (semester) - EL2083

**Description:** This section of P.E. I includes two classroom units of instruction on nutrition and safety. Students will also participate in fitness activities such as volleyball, swimming, orienteering, and an orientation unit introducing the concepts of our program. Students will take a pre and post fitness test by Prudential Life called FitnessGram to assess their current fitness level as compared to students across the country.

## CBL - Health

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 9601
- ⇒ **Edgenuity Equivalent:** Contemporary Health (semester) - EL3404 IC

**Description:** Topics covered within Health Education courses may vary widely, but typically include personal health (nutrition, mental health and stress management, drug/alcohol abuse prevention, disease prevention, and first aid) and consumer health issues.

## CBL - Intro to Information Tech

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 99992
- ⇒ **Edgenuity Equivalent:** Introduction to Information Technology - EL3701 A

**Description:** In this course, students will be introduced to the knowledge-base and technical skills that will help them to successfully compete for jobs within the Information Technology career cluster. Lessons are structured so that students learn and then demonstrate not only critical assessment and analytical skills, but also interpersonal skills that are valued so highly among IT employers.

## CBL - Nursing Possibilities

---

- ⇒ **Credit:** 0.5
- ⇒ **Course Number(s):** 99960
- ⇒ **Edgenuity Equivalent:** Nursing Possibilities - EL3610 A & B

**Description:** This course provides students opportunities to compare and contrast the various academic and clinical training pathways to an entry-level position in nursing and to explore the growing number of opportunities for professional advancement given the proper preparation and experience. Students will have several opportunities to learn about the expanding scope of professional practice for registered nurses and better understand the important changes proposed in the education and ongoing professional development of nurses. A project at the end of this course will assist students in focusing their ambition and commitment to nursing service by better defining their available educational and clinical training opportunities.

## CBL - Spanish I A & B

---

- ⇒ **Credit:** 1.0
- ⇒ **Course Number(s):** 99857 & 99858
- ⇒ **Edgenuity Equivalent:** Spanish I - WL9603 A & B LMS

**Description:** Spanish 1 will provide the student with a general introduction to the Spanish language: sound system, pronunciation, functional vocabulary related to everyday life, cultural information and basic grammatical structures. Emphasis will be on the acquisition of four skills: listening, speaking, reading and limited writing. Students who actively participate in this course will be able to carry on simple conversations and be at the Novice Low to Novice Mid level (according to ACTFL Proficiency Guidelines).

## **CBL - Spanish II A & B**

---

⇒ **Credit:** 1.0

⇒ **Course Number(s):** 99855 & 99856

⇒ **Edgenuity Equivalent:** Spanish II - WL9604 A & B LMS

**Description:** Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s).

# Repeatable Course List

<u>ENGLISH</u>	<u>JOURNALISM</u>	<u>PHYSICAL EDUCATION</u>
Creative Writing	Digital Media Design & Production	Strength & Conditioning
Experienced Debate		
Spring Debate	AV Production Fund.	<u>VISUAL ARTS</u>
Forensics		All Classes

<u>PERFORMING ARTS</u>		<u>CTE</u>
Band	Choraleers	Auto Restoration—with permission of instructor
Jazz I & II	Concert Choir	
Orchestra	Le Chante	Laser Works
Forensics	Railaires	Woods 2
Experienced Debate	Drama 3 & 4	Adv Modern Ag
Spring Debate	Tech Theater	Horticulture 2
		CNC II
		Engineering Design & Dev.
		Internships



# Community Resources

---

## Harvey County Community Resources



To view the Harvey Co. Resource Directory scan the QR code *or* visit:

<https://harveycountyresource.glideapp.io/>

## Mental Health Resources

**Mirror Inc.:** Students in need of addiction services are eligible for referral to an onsite therapist. *contact your counselor for referral information*

**Prairie View:** Prairie View serves as the community mental health center for Harvey County and provides mental and behavioral health services to all residents of the county regardless of their ability to pay. [www.prairieview.org](http://www.prairieview.org). *contact your counselor for referral information*



For additional resources, or questions contact your students counselor, or NHS Social Worker Taylor Lewis, LMSW. [taylor.lewis@usd373.org](mailto:taylor.lewis@usd373.org) or P: 316-284-6280 x2054



# Athletic Eligibility Requirements

---

Eligibility for student athletes/activity participants is governed by the KSHSAA. This eligibility requirement is set for all levels of competition (Varsity, JV, Freshman, etc.).

A student athlete/activity participant must meet the following eligibility requirements:

1. An athlete, spirit, or spirit competition group must have passed a physical examination and have completed a Physical Form provided by the Athletic Department prior to playing or practicing a sport at Newton High School. **It must be dated AFTER MAY 1 of the current school year.**
2. A student athlete/activity participant is eligible for interscholastic competition for no more than eight consecutive semesters once entering grade nine.
3. Each student must have **passed a minimum of 5 classes** the previous semester at Newton High School (summer school doesn't apply) and be **enrolled as a full time student (8 classes at NHS).**
4. An athlete may play only one sport during a season unless it is approved by the coaches, Athletic Director, and parents with an understanding of which sport takes precedence. Students who are involved in both athletics and other activities must communicate with all coaches/sponsors to outline a plan for participation in each to avoid conflicts.
5. a. If at any time an athlete receives any type of financial remuneration for participating in sports that are organized by the KSHSAA, athletic eligibility for that athlete will be terminated from all high school sports from the date of the infraction. b. Accepting a nominal fee for teaching, supervising, or officiating in an organized youth sports program or recreation, playground, or camp activity shall not jeopardize the athlete's amateur status. c. If an athlete signs a professional playing contract, amateur status will be lost in the sport involved.
6. A member of a school team is a student athlete/activity participant who is regularly present for, and actively participates in, all team/group practices and competitions/events. Bona fide members of a school team are prevented from missing a school practice or competition to compete with an "out-of-school team" of the same sport, scholars bowl, or debate/forensics activity. Whenever a conflict arises between the school team practice/competition and an out-of-school practice/competition on the same day (of a different sport), the school team practice/competition must be honored by the student athlete/participant. Priority must be given, at all times, to the school team, its practices, and its contests.
7. Please consult the Athletic Director if you have transferred from another high school. Certain regulations must be followed to allow the athlete to participate.
8. If an athlete competes in any KSHSAA event under an assumed name, the athlete will be ineligible in all sports.
9. During the school calendar year, student athlete/activity participants may not have any contact with their coach/sponsor for the purpose of practicing or playing at any time other than within the limits of the season as described by KSHSAA rules.10. a. Any student athlete/activity participant or coach/sponsor who is disqualified from a game/event at the middle school, freshman, junior varsity, or varsity level, for exhibiting unsportsmanlike conduct shall not participate in the next scheduled interscholastic event, including KSHSAA Tournament contests. The athlete/activity participant or coach/sponsor is not allowed to be in attendance at the next scheduled event. There is a two-game/event suspension for an athlete/activity participant who is removed from a game/event due to fighting. The student and coach/sponsor are required to take an NFHS Sportsmanship course online before returning to play. b. If any student or coach/sponsor receives a second game/event disqualification during the season, that individual will be required to forfeit any participation in that interscholastic sport/event, at any level, for the remainder of that season. c. If the game/event disqualification is administered in the final contest of the season (including tournament play), the penalty shall be carried over in that sport/event and invoked at the first regular season game/event the following academic year. If a disqualification is administered to a graduating senior or coach/sponsor in the final game of coaching for Newton High School, it is the expectation of the KSHSAA that the school will take immediate and appropriate disciplinary action, which could include suspension for those contests in the next season of sport.

# STUDY HALL APPLICATION

Study hall is a class offered during the regular school day for **NO CREDIT**. Students will **ATTEND** regularly and work independently on academic work under the supervision of a staff member.

**Requirements:**

- Taking 3 or more dual credit, honors or AP courses
- Demonstrate need of additional work time
- Good academic standing
- Have excellent attendance
- Self regulate behaviors and manage time effectively

I agree to the terms and conditions of the privilege of having a study hall.

Date \_\_\_\_\_ Student Signature \_\_\_\_\_

Date \_\_\_\_\_ Parent signature \_\_\_\_\_

## NHS Senior Application for Partial Schedule 25-26

School policy states second semester seniors are required to take only those courses needed to fulfill the graduation requirements. However, it is recommended that seniors challenge themselves beyond the 26 credits required. Second semester seniors are encouraged to take advantage of the many educational opportunities available to Newton high students. Seniors participating in second semester athletics or activities must be enrolled in 6 of the 8 second session blocks AND seminar in order to be eligible under KSHSAA & local guidelines. Their credits MUST equal 3.0 for the second semester. If they are not enrolling in two courses, they must be on opposite days. Students cannot have both open spots in their schedule on the same day. Students in 0 hour weights will have 3 classes each day in addition to 0 hour.

Students who believe that their educational needs and career goals can be better served through a partial schedule are required to request a partial schedule application form from their school counselor during the first term of their Senior year. The following stipulations will apply:

1. The **Application for Partial Schedule** must be turned in before the end of Term 1. **(Dec 1, 2025)**
2. Partial Schedules will only be granted for 2<sup>nd</sup> semester.
3. Students requesting Partial Schedules must be on track to graduate.
4. Students will not be allowed on the NHS campus during the time not enrolled in NHS classes.
5. College coursework taken during partial schedules cannot be applied toward graduation from Newton High School, unless it is a course that has been given prior approval by the school as an acceptable concurrent credit class.
6. The cost of all post-secondary classes will be at the expense of the student.
7. College grades are included on student transcripts and factor into the students' cumulative GPA and are *NOT weighted at NHS*.

Student Name:

---

Student Signature/Date

---

Parent Signature/Date

---

For office use only:

## DUAL CREDIT ACKNOWLEDGEMENT 25-26

Students and parents acknowledge responsibility for:

- 1) Applying to the college and meeting the requirement for placement in the class.
- 2) Paying the applicable tuition and fees for the course.
- 3) Purchase of required textbooks.
- 4) Meeting all deadlines for adding and dropping classes and any fees that may be associated.

Students and parents acknowledge NHS policies:

- 1) College class grades are NOT weighted at NHS.
- 2) College grades are included on student transcripts and factor into the students' cumulative GPA.
- 3) A penalty fee will be charged for dropping a DUAL CREDIT course you qualified to take, \$50 after June 1st. This DOES include second semester enrollments.

Please sign below and return to your counselor:

\_\_\_\_\_  
Student Name (Print)

\_\_\_\_\_  
Parent Signature

\_\_\_\_\_  
Date