

**The Mission of Newton High School is to create and maintain a learning environment that ensures every student will attain a high level of growth and achievement, verified by objective measures supported by timely / appropriate teaching strategies and individual guidance.**

This NHS Course Description Book is presented by the entire staff of Newton High School as a source of information for students and parents regarding the offered courses of study. Parents are encouraged to study the information contained herein and to assist their student in planning an appropriate high school program of studies.

**Responsibilities of Students & Parents:**

1. To be aware of all graduation requirements and to have a plan for meeting those requirements.
2. To review the established plan each year and check for completed graduation requirements.
3. To ensure that the student’s time spent at Newton High School is productive by choosing courses relevant to his/her academic and career interests while challenging his/her abilities.
4. To work with the Counseling Department in addressing academic or personal / social needs.
5. To be aware of the scheduling deadlines for adding and dropping courses.

Payments for all textbook fees are due at the time of enrollment, and payments for all other student fees are due at the time of purchase. USD 373 is contracted with CCM Enterprises of Wichita, KS to handle collections on unpaid accounts. Unpaid fees may include balances owed for school meals, textbook fees and materials, pay for participation fees, lost or damaged books, and other miscellaneous fees. Additional charges will apply to accounts submitted for collection. Parents contacted by CCM Enterprises regarding past due accounts should correspond with CCM Enterprises at 316-615-9140 to resolve account balances. For general information and or questions regarding the collection of past due accounts, contact Kim Fiessinger at 316-284-6217.

**Student Services**

The administrative and counseling staff of the school is ready to assist in interpreting the provisions set forth in this booklet and in suggesting how they may fit individual needs and interests. If you wish assistance, come to the Student Services Office or call your counselor at 284-6280. Counselor extensions are:

Class of 2013 Ext.1155	Class of 2014 Ext. 1156	Class of 2015 ext. 1136	Class of 2016 ext. 1136, 1155 or 1156
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**Credit Information**

All students will enroll in at least seven courses in addition to seminar each semester.

Promotion Requirements:

Grade 9 to grade 10	must have passed at least 5 credits
Grade 10 to grade 11	must have passed at least 11 credits
Grade 11 to grade 12	must have passed at least 17 credits
Grade 12 to graduation	must pass the required 24 credits & complete the Senior Exit Portfolio

## **REQUIREMENTS FOR GRADUATION**

<b>REQUIRED CREDITS</b>		<b>HONORS DIPLOMA</b>	
Language Arts	4.0	Language Arts	4.0
Communications	.5	Communications	.5
Mathematics	3.0	Mathematics	4.0
		(Alg.I, Geometry, Alg. II)	
Science	3.0	Science	3.0
		(Biology, Chem. I, Physics)	
Social Science	3.0	Social Science	3.0
Physical Education/Health	1.5	Physical Education/Health	1.5
Fine Arts	1.0	Fine Arts	1.0
Computer Technology	1.0	Computer Technology	1.0
		World Language	2.0
Electives	7.0	Electives	4.0

## **TOTAL CREDITS FOR GRADUATION 24.0 AND SENIOR EXIT PORTFOLIO**

### **The Senior Exit Portfolio**

The Senior Exit Portfolio and an interview process are **REQUIRED** of all seniors as a graduation requirement. The portfolio consists of a resume, transcript, academic accomplishments (including a reflective essay), three letters of character reference, and twenty hours of service learning. The individual student has ultimate responsibility for the completion and presentation of the Senior Exit Portfolio. Upon completion of the portfolio and interview, the student will receive .5 credit applied toward the 24 credits required for graduation.

### **Fine Arts Credit**

The fine arts credit may be selected from the following: all art courses, all instrumental courses, all vocal music courses, all world language courses, Intro to Drama, Drama II, Tech. Theater, Broadcast Production, Desktop Publishing, Web Page Design, Digital Media, Speech, Novice Debate, Forensics, Experienced Debate, Interior Design, Fashion Studio I, II or III, Woodworking I or II, Intro to Engineering Design, Principles of Engineering Architectural Design, Pre-Vocational Welding, Machine Technology I, or Welding Technology I.

### **Honors Diploma**

Students must earn a minimum of twenty-four credits with an overall grade point average of **3.50** or above, and have taken additional prescribed curriculum to receive an Honors Diploma. The selection of class valedictorian and salutatorian will be made from the group of students who qualify for an Honors Diploma.

### **Early Graduation**

A student may graduate early. Formal application must be made with the principal prior to May 1 of their junior year. The counselor has the application form. Approval must be obtained from parents, counselor and principal. All normal requirements for graduation must be met including the Senior Exit Portfolio. A conference with all persons concerned is required.

## **KANSAS BOARD OF REGENTS**

The Kansas Board of Regents governs standards at six universities in Kansas. Boards of Regents schools are: Kansas State University, The University of Kansas, Fort Hays State University, Emporia State University, Wichita State University, and Pittsburg State University. It is highly recommended students take the qualified admissions curriculum for the best preparation for post secondary success. The Kansas Board of Regents approved NHS curriculum may be found online at [www.kansasregents.org](http://www.kansasregents.org). If a student elects to take college classes, other than those offered at NHS for dual credit, we cannot assure the class will meet Qualified Admissions Curriculum approval. As a result the student will need to meet regents' admissions requirements based upon an ACT score of 21 or higher, or rank in the top third of their graduating class. Qualified Admissions Requirements are changing. Students graduating in 2013 and 2014 will meet DIFFERENT requirements than students graduating in 2015 and 2016. PLEASE review the charts on the next few pages from KBOR and make sure you are taking the correct curriculum.

The Kansas Scholars Curriculum is NOT THE SAME as Qualified Admissions. Completion of the Kansas Scholars Curriculum is one of the requirements for students wishing to receive State Scholar designation.

## **NCAA REQUIREMENTS FOR DIVISION I AND II ATHLETICS**

If you plan to participate in NCAA Division I or II athletics, you need to be certified by the NCAA Eligibility Center. You need to qualify academically and need to be cleared as an amateur athlete. You are responsible for achieving and protecting you eligibility status. Consult the website for specific information

NCAA STANDARDS:

- Minimum ACT/SAT scores AND GPA in college preparatory CORE courses.
- Certified by the NCAA INITIAL ELIGIBILITY CENTER during their senior year or before.
- Forms are available online.
- Information is available [http://eligibilitycenter.org/ECWR2/NCAA\\_EMS/NCAA.html](http://eligibilitycenter.org/ECWR2/NCAA_EMS/NCAA.html)

## **NAIA REQUIREMENTS**

Students interested in playing sports at NAIA colleges need to register with the NAIA Eligibility Center at PlayNAIA.org. Students must be a graduate of an accredited high school or be accepted as a regular student in good standing as defined by the enrolling institution AND meet 2 of the 3 following criteria:

- Achieve a minimum of an 18 on the ACT or 860 on the SAT
- Achieve a minimum overall high school GPA of 2.0 on a 4.0 scale
- Graduate in the top half of your high school class.

More information is available on the following pages. You can also visit their website at [www.PlayNAIA.org](http://www.PlayNAIA.org) or calling 866-881-6242

**THE NAIA AND NCAA are two separate associations, with different sets of rules and certification processes, therefore students should register with the appropriate institution. Registration fees may vary between the two associations. Registering with one eligibility center DOES NOT register you with the other!**

**BOARD OF REGENTS INFORMATION**

## **DROP ADD POLICY**

There should be VERY FEW requests to make a schedule change after the pre-enrollment process is completed. During pre-enrollment, students and parents are advised to give careful consideration to course offerings. Counselors work closely with students to give them the best possible advice and answer any questions. Parents must sign the pre-enrollment form. Schedule change requests may be made the week **BEFORE** the start of classes or at the semester. Counselors will be available the week before school begins to make changes. All other schedule changes will be teacher initiated.

## **Advanced Placement (AP) Courses**

The College Board's Advanced Placement Program (AP classes) enables students to pursue college-level studies while still in high school. Based on their performance on rigorous AP examinations, students can earn college credit, advanced placement in college courses, or both. Depending on the score received on the AP exam given at the end of the course, students can receive three to six hours of college credits. Nearly all colleges accept some type of AP credit, but the required test scores and number of credits granted vary from college to college. Students are advised to contact potential colleges about their AP policies. Students are responsible for the cost of taking the AP exam (currently \$86), but this is substantially less than the cost of college credit. Fee reductions are available to those who qualify. AP allows high school students to take courses that are challenging, rigorous, and in-depth—preparing students for the kinds of courses they will face once in college. As such, these courses require a substantial commitment of time and energy on the part of students. Students are advised to take no more than three AP courses during one school year. Newton High School offers AP English IV, AP US History, AP Calculus (AB), AP Calculus (BC) and AP Biology.

## **DISTANCE LEARNING**

The Distance Learning Network is an opportunity for students to receive high school and / or college classes that are not available in the school. Classes will be broadcast from different locations or possibly broadcast from our Distance Learning lab. Classes will be limited to 12 students and will be available in coordination with the Newton High School schedule.

## **Tech Prep**

Tech Prep is a term used to describe a course of study that prepares students to continue their education in a technical/vocational career path. NHS has agreements with Hutchinson Community College that will allow students to earn college credits for designated courses completed with a grade of B or better. Such courses are noted in this book as having "Tech Prep designation". At the successful completion of these courses, HCC personnel will notify students of the Tech Prep status, along with the instructions for using the earned credits.

## **College Enrollment**

It is possible for high school students to enroll in college classes. NHS and Hutchinson Community College have coordinated an opportunity for students to take concurrent or dual credit classes at NHS during the regular school day. The courses offered include: English Comp. IA, English Comp. II, Fundamentals of Computer Programming, American Government, College Algebra, General Psychology, and Elements of Statistics, Aural Skills I & II, Music Theory I and II, C.N.A. and Cardiac Care. The student must pay college course tuition. A three hour college class counts as .5 high school credit. Interested students should consult with their counselor. Please refer to the next pages for specific steps to the dual enrollment process!

**INFORMATION**  
**For**  
**Students & Parents**  
**HUTCHINSON COMMUNITY COLLEGE CONCURRENT CLASSES**

Students will:

- Attend HCC information night at NHS
- Fill out application [www.hutchcc.edu/admissions/apply](http://www.hutchcc.edu/admissions/apply) including personal e-mail address
- Fill out and have HS permission form signed, can be found at [www.hutchcc.edu/admissions/apply](http://www.hutchcc.edu/admissions/apply) Turn the completed forms in to the senior counselor.
- Provide ACT scores or take HCC assessments
- Identify course you would like to enroll in FALL 2012 and pre enroll in the high school section, notifying counselors you wish to take the class for college credit. High School students cannot self-enroll online.

1. Confirm your intent: Upon enrollment, please confirm your intent through your student account, Dragon Zone, by completing the following process:

- a. Go to [www.hutchcc.edu](http://www.hutchcc.edu) and click on Dragon Zone, found under the picture to the right Before you can use Dragon Zone you will need to get your username and password by clicking the button that says "click here" by Forgot or Change password. Follow the prompts under 'Forgot Password', enter your ID or SSN# and date of birth and then click 'Forgot Password'.
- b. Your Username and Password will be emailed to the email address you submitted on your HCC application within 15 minutes. If you did not enter an email address on your HCC application, you will need to call Tech Support at 620 665 3524 for assistance.
- c. Once you have your Username and Password, log into Dragon Zone at the top right of the page.
- d. The first screen you will come to will ask you to confirm your intent. Read the screens carefully and follow the next screen instructions. **Confirming your intent locks in your course schedule and obligates you financially for your courses.**
- e. Keep your Username and Password in a safe place, you will need this information to access your grades, check your HCC email, print statements, etc.

2. Make tuition payment arrangements BEFORE the first day of class: A bill for your HCC course(s) will be mailed directly to your home to your attention. Please submit payment to the Newton Center or the Business Office in Hutchinson upon receipt of the bill or sign up for our FACTS payment program. A delay in payment could result in late fees being assessed to your account.

- a. Tuition: \$65 per credit hour (subject to change, based on 2011- tuition)

3. Textbook information can be viewed via your Dragon Zone account. Textbook information will not be given over the phone all information can be found on your Dragon Zone account. Textbooks may be purchased starting August 1 at the Newton Center or Campus Store. Textbooks can be purchased by phone and mailed to your home for an additional shipping charge by calling 620 665 3517

4. Attend your classes when the semester starts!

5. Consider Step Ahead for your future Education needs.

## DRAGON ZONE Guardian Account Request

Do you want your parents or guardians to have access to your account information? Set up their Guardian Account with Dragon Zone:

[www.hutchcc.edu](http://www.hutchcc.edu): Dragon Zone

Guardian Account Request

Follow directions on screens to give them access to grades, statements, etc.

For more information about the Family Education Rights and Privacy Statement (FERPA) please visit:

[http://wwwcms.hutchcc.edu/www/catalog/catalog\\_hcc.aspx?id=1432](http://wwwcms.hutchcc.edu/www/catalog/catalog_hcc.aspx?id=1432)

## **Career Planning**

Studies of how young people come to their educational and career decisions underscore the fact that parents are the #1 influence on career planning. The Kansas Career Pipeline system supports parents in that critical role. Many of our students have a profile, ask your students to share their information with you. When parents log on to the system, they can see:

- Information on assessments, occupations/majors and more
- Explore the 16 Career Clusters
- Access their child's portfolio
- Find links to informational websites

## **Career Pathways**

Newton High offers a variety of courses in 6 career areas. Within those career areas are 13 specific career pathways. You will see the specific course progression a student should follow if they are interested in one of these pathways. It is our hope for students to identify a career area and then complete the pathway progression. Please note there are classes at the freshmen and sophomore level which are introductory courses to several pathways. We encourage students and parents to carefully consider these progressions when formulating a four or five year educational plan.

# AGRICULTURE EDUCATION

## Ag Science Pathway

Freshmen Options	Sophomore Options	Junior Options	Senior Options
Tech Ag I	Horticulture I Animal Science Wildlife Management Food Science	Horticulture I Animal Science Wildlife Management Food Science Horticulture II	Horticulture I Horticulture II Animal Science Wildlife Management Food Science Ag. Business Internship

## Power, Structural and Technical Pathway

Freshmen Options	Sophomore Options	Junior Options	Senior Options
Modern Ag Mechanics Tech Ag I	Pre-Vocational Welding Advanced Modern Ag Mechanics	Pre-Vocational Welding Advanced Modern Ag Mechanics Small Engine Repair Ag Power Mechanics	Pre-Vocational Welding Adv. Modern Ag Mechanics Small Engine Repair Ag Power Mechanics Ag Equip. Const. Ag Business Ag Business Internship

## Plant Science Pathway (Agriculture)

Freshmen Options	Sophomore Options	Junior Options	Senior Options
Tech Ag I	Horticulture I	Horticulture II	Ag Business Ag Business Internship

## Architecture and Construction

### Construction Pathway Progression

Freshmen Options	Sophomore Options	Junior Options	Senior Options
Introduction to Industrial Technology	Introduction to Industrial Technology Basic Construction Skills Woodworking I	Introduction to Industrial Technology Basic Construction Skills Woodworking II	Introduction to Industrial Technology Woodworking I Woodworking II

### Architecture and Pre-Design Pathway Progression

Freshmen Options	Sophomore Options	Junior Options	Senior Options
Introduction to Industrial Technology	Architecture Design Basic Construction Skills Woodworking I	Architecture Design Basic Construction Skills Woodworking I	Architecture Design

## BUSINESS

### Business Management Pathway Progression

Freshmen options	Sophomore options	Junior options	Senior options
Business Essentials	Entrepreneurship/YEK Accounting I Business Law	Leadership for Business Business Communications Entrepreneurship Advanced Accounting II Business Law	Applied Business Development Business Economics

### Finance Pathway Progression

Freshmen options	Sophomore options	Junior options	Senior options
Business Essentials	Accounting I Entrepreneurship/YEK Financial Mgt. I	Accounting I Entrepreneurship/YEK Financial Mgt I Financial Mgt II Advanced Accounting II	Accounting I Entrepreneurship/YEK Financial Mgt I Financial Mgt II Advanced Accounting II Business Economics

### Marketing Pathway Progression

Freshmen options	Sophomore options	Junior options	Senior options
Business Essentials	Accounting I Marketing I Entrepreneurship/YEK Business Law	Accounting I Marketing I Entrepreneurship/YEK Business Law Marketing II	Accounting I Entrepreneurship/YEK Business Law Marketing II Small Bus. Mgt. Business Economics

## HUMAN SERVICES

Freshmen Options	Sophomore Options	Junior Options	Senior Options
Intro to Family & Consumer Science	Intro to Family & Consumer Science Consumer Ed. / Personal Finance Nutrition & Wellness Family Studies	Consumer Ed. / Personal Finance Nutrition & Wellness Human Growth & Development Family Studies	Consumer Ed. /Personal Finance Nutrition & Wellness Human Growth & Development Family Studies Career & Community Connections

## Industrial and Manufacturing Pathway

### Auto Technology

Freshmen Options	Sophomore Options	Junior Options	Senior Options
Introduction to Industrial Technology Business Essentials	Business Essentials Consumer Auto Care Woodworking Machinery & Techniques	Auto I ( concurrent enrollment in Auto IA, IB, & IC)	Auto I Auto II ( Concurrent enrollment in Auto IIA . IIB, IIC and IID)

Note: to graduate with an emphasis in Auto Technology, students must earn 3 credits in the Auto sequence

### Machine Tech

Freshmen Options	Sophomore Options	Junior Options	Senior Options
Introduction to Industrial Technology	Machine Tech I	Machine Tech I	Machine Tech II

### Welding

Freshmen Options	Sophomore Options	Junior Options	Senior Options
Introduction to Industrial Technology		Welding I	Welding II

## JOURNAISM

Freshmen Options	Sophomore Options	Junior Options	Senior Options
Business Essentials Intro to Journalism Digital Media	Intro to Journalism Digital Media Newspaper Production Design I Yearbook Productions	Intro to Journalism Digital Media Newspaper Production Design I Design II Yearbook Productions	Intro to Journalism Digital Media Newspaper Production Design I Design II Yearbook Productions

## Science, Technology, Engineering and Math – S.T.E.M.

Freshmen	Sophomore	Junior	Senior
Intro Engineering Design	Intro to Engineering Design Principles of Engineering	Intro to Engineering Design Principles of Engineering Aerospace Engineering	Intro to Engineering Design Principles of Engineering Aerospace Engineering Engineering Design & Development

## LANGUAGE ARTS

<u>COURSE</u>	<u>PREREQUISITE</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>	
	Basic English I, II, III, IV	by placement only	9 10 11 12	1
1001-1002	General English I		9	1
1011-1012	Honors English I		9	1
1041-1042	General English II	1011 and 1002 or 1011 and 1012	10	1
1051-1052	Honors English II	1001 and 1002 or 1011 and 1012	10	1
1061-1062	General English III	1041 and 1042 or 1051 and 1052	11	1
1071-1072	Honors English III	1051 and 1052	11	1
1081-1082	General English IV	1061 and 1062 or 1071 and 1072	12	1
1091-1092	Honors English IV	1071 and 1072	12	1
1101-1102	Advanced Placement English IV	1071 and 1072	12	1
EN101	English Composition IA		12	.5
EN102	English Composition II	EN101	12	.5
1300	Novice Debate		9 10 11 12	.5
1310	Experienced Debate	1300	10 11 12	.5
1312	Spring Debate		9 10 11 12	.5
1320	Forensics		9 10 11 12	.5
1371-1372	Reading		9 10 11 12	.5-1
1025	Speech		10 11	.5

**NOTE:** All Honors English courses require a concerted and independent effort from students. Extensive reading and writing will be done outside class. A strong working knowledge of grammar and conventions is expected. No student should enroll in Honors English if his or her reading and writing skills are not above average. **By the end of the first nine weeks, any student whose grade is below 75% will be reviewed for possible placement in a General English class.** Students should visit with their current/previous English teachers if uncertain whether to enroll in an advanced course. Summer reading and assignments are required.

BASIC ENGLISH I, II, III, IV by teacher placement only 9 10 11 12 1

Basic English will assist students who received an “academic warning” on assessments in English and/or would benefit from intensive work in reading comprehension and vocabulary development.

1001 GENERAL ENGLISH I 9 1

1002

This course introduces concepts and develops abilities in the student’s understanding of literature and the English language. The course emphasizes 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.

1011	HONORS ENGLISH I	9	1
1012			

Prerequisite – Candidates must complete the Honors Recommendation Form; students are recommended to have a score of 14 or better on the reading portion of the Explore Test, a Lexile score of 1050 or better, and an A or B in English.

Students enrolled in this course are expected to have strong literary skills, as class time will consist of in depth exploration of literature and writing. This course emphasizes composition, vocabulary, grammar, and readings of greater length and complexity than those in General English I. Students should have a basic understanding of grammar, as additional concepts will be introduced. **In addition, students will be expected to complete summer reading prior to the beginning of the school year. The students will read *Black Like Me* and *If You Come Softly* and will complete reading response journals for their summer reading.**

1041	GENERAL ENGLISH II	10	1
1042	Prerequisite – English I or Honors English I		

This course deepens the student’s understanding of literary types; short stories, novels, poetry, nonfiction and drama are studied through selected reading. 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.

1051	HONORS ENGLISH II	10	1
1052			

Prerequisite – Candidates must complete the Honors Recommendation Form; students are recommended to have a score of 80% or better on the Formative Reading Assessment, a Lexile score of 1250 or better, and an A or B in English.

Honors English II has a stronger emphasis on and higher expectations for composition and vocabulary usage than General English II. Also, students will read literature selections of greater complexity. New grammar concepts are taught, so the student must have a strong understanding of all concepts taught in English I.

**In addition, students will be expected to complete summer reading prior to the beginning of the school year.**

1061	GENERAL ENGLISH III	11	1
1062	Prerequisite – English II or Honors English II		

This course emphasizes close reading and written analysis of themes in North 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.

1071	HONORS ENGLISH III	11	1
1072	Prerequisite – Candidates must complete the Honors Recommendation Form; students are recommended to have a score of 80% or better on the Formative Reading Assessment, a Lexile score of 1300 or better, and an A or B in English.		

This course is recommended for college-bound students who have been successful in previous Honors English classes. In addition to the course work covered in Honors English II, there is a much stronger emphasis on critical reading, persuasive writing, and literary analysis. Students are expected to have an excellent command of grammar skills and a strong writing ability upon entering the course. Extensive out of class reading is required. **In addition, students will be expected to complete summer reading prior to the beginning of the school year.**

1081	GENERAL ENGLISH IV	12	1
1082	Prerequisite – English III or Honors English III		

General English IV is a survey course designed to prepare students to be successful in whatever they do following high school. Areas of emphasis include the reading of both fiction and nonfiction literature and writing for academic as well as vocational purposes.

1091	HONORS ENGLISH IV	12	1
1092	Prerequisite – Candidates must complete the Honors Recommendation Form; students are recommended to have a score of 80% or better on the Kansas Reading Assessment, a Lexile score of 1300 or better, and an A or B in English.		

This is a course for college-bound seniors who have been successful in previous Advanced English courses. Students will review grammar as needed and will master various composition techniques. A major focus of this course is reading and analyzing British literature. **In addition, students will be expected to complete summer reading prior to the beginning of the school year.**

1101	ADVANCED PLACEMENT ENGLISH IV	12	1
1102	Recommendation – Honors English III; Grade of A or B in previous English classes, and teacher recommendation.		

This course offers capable students the academic challenge of a college level English course. While penetrating deeper into the analysis of literature, the course will focus on authors from England, America, and around the world. Written analysis is emphasized in frequent papers, and significant out-of-class reading is required. Students are expected to have a strong mastery of grammar skills upon entering the course. Students will prepare for the Advanced Placement exam to be given in the spring. **In addition, students will be expected to complete summer reading and writing prior to the beginning of the school year.**

EN101 English Composition 1A – Essentials of Composition  
 Prerequisite: Appropriate Asset or Compass Writing score or ACT English score of 20 or above.  
**See page 5 for a complete understanding of enrollment responsibilities**

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. 3 credit hours



This course provides an overall view of oral communication. Included are informative, persuasive and autobiographical speeches. Non-verbal communication and various outline formats are studied. **This class fulfills the required communications credit.**



2055 CONTEMPORARY UNITED STATES HISTORY 11 12 1  
 2056 Required for the 11<sup>th</sup> Grade

The course will describe the growth of the United States as a world power in the 20<sup>th</sup> century. The student will examine the events, ideas and personalities that drew the United States, already an economic giant, reluctantly to assume political leadership in the modern world; and, how the nation's superpower status shaped its contemporary social and economic fabric. Resources will include multi-media software, primary sources, and secondary reference materials. Kansas State Education Department assessments will be conducted during the second semester. In addition, performance will be assessed through class projects, media reviews, written assignments and traditional exams.

2081 ADVANCED PLACEMENT UNITED STATES HIST/AM.GOV'T 11 12 1  
 Recommendation – 3.5 GPA in Honors Courses

2072  
 2073 Juniors enroll in 2081 and 2072  
 2074 Seniors enroll in 2073 and 2074

This course is designed for students who want the academic challenge of an integrated college level US History/Government course. Students are introduced to the development of governmental institutions, historiography, authors and methods. 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-A.P. US History exam at the conclusion of their senior year. Please note this is a two-year block with the first semester focusing primarily on government and three semesters devoted to an in-depth survey of US History.

2080 AMERICAN GOVERNMENT 12 .5  
 Required for 12<sup>th</sup> Grade

This course 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 do individual projects, class field trips and examinations. Exams are both objective and subjective.

GO100 American Government – concurrent enrollment with HCC 12 .5  
 Prerequisites: Approved Asset or Compass Reading Score or ACT Reading score of 17 or above.  
**See page 5 for a complete understanding of enrollment responsibilities**

American system of government with special emphasis on constitutional developments, structure and operation and the changing nature of federal government. 3 credit hours.

**STUDENTS MAY CHOOSE FROM COURSES 2100, 2110, AND 2120 TO SATISFY THE SENIOR ELECTIVE SOCIAL SCIENCE REQUIREMENT.**

2100 PSYCHOLOGY 12 .5

This course will survey the scientific principles of mental process and human behavior. Areas covered will include neuroscience, human development, sensation, perception, learning, memory, thinking, intelligence, emotions, stress, personality and psychological disorders. In addition, the student will review the historical development of psychology and the fundamentals of research.



## MATHEMATICS

<u>COURSE</u>		<u>PREREQUISITE</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>
3021-3022	Applied Math I	3041 and 3042	10 11 12	1
3035-3036	Basic Algebra	placement only	9	1
3041-3042	Algebra I		9 10 11 12	1
3055-3056	Standards Based Math	3041 and 3042	10 11	1
3061-3062	Geometry	3041 and 3042	9 10 11 12	1
3091-3092	Honors Geometry	3041 and 3042	9 10 11 12	1
3071-3072	Algebra II	3061 and 3062 or 3091 and 3092	10 11 12	1
3101-3102	Honors Algebra II	3061 and 3062 or 3091 and 3092	10 11 12	1
3201-3202	FST (Function, Statistics Trigonometry)	3071 and 3072 or 3101 and 3102	11 12	1
3135-3136	Pre-Calculus/Trigonometry	3101 and 3102	10 11 12	1
3131-3132	A.P. Calculus I	3135 and 3136	12	1
3133-3134	A.P. Calculus II	3131 and 3132	12	1
2319	Math Tutor		11 12	1
MA106	College Algebra		12	.5
MA108	Elements of Statistics		12	.5

### Course Progression - Math

	Freshmen	Sophomore	Junior	Senior
Typical 1 OR Typical 2	Algebra I	Geometry	Algebra II	FST Functions, Statistics & Trig.
	Algebra I	Hon. Geometry	Hon. Alg. II	Pre Calc
Modified (teacher recommended)	Algebra I (basic)	Standards Based Math (Teacher recommended)	Applied Math OR Geometry	
Accelerated 1 OR Accelerated 2	Honors Geometry	Honors Algebra II	Pre Calculus With Trig.	AP Calculus
	Geometry	Algebra II OR Honors Alg. II	FST	College Algebra & Statistics

3021	<b>APPLIED MATH I</b>	10 11 12	1
3022	Prerequisite – Algebra I		

Applied Mathematics focuses on reviewing math skills from the areas of Algebra, Geometry, and Trigonometry, and applying those skills in real-world applications. Supplemental resources include worksheets and a computer software program that designs individualized units of content for each student.

3035	<b>BASIC ALGEBRA</b>	9	1
3036	by teacher placement only		

A teacher places a student in Basic Algebra class if he/she has difficulty in math and/or has received an “academic warning” on the Kansas Math Assessment.

3041	<b>ALGEBRA I</b>	9 10 11 12	1
3042	Recommendation – None		

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. (Scientific calculator is required.)

3055	<b>STANDARDS BASED MATH</b>	10 11	1
3056	Recommendation – Algebra I (C- or lower) Enrollment is based on <b>TEACHER RECOMMENDATION ONLY.</b>		

Standards based math will address the Kansas Math Standards as presented on the Kansas Math Assessment. This course is designed for the student needing reinforcement of data, number and computation, algebra, and geometry standards. All students enrolled in this course will take the Kansas Math Assessment.

3061	<b>GEOMETRY</b>	9 10 11 12	1
3062	Prerequisite – Algebra I		

Geometry is the study of visual patterns and geometric properties, transformations, proof, and right triangle trigonometry. The content uses multiple representations integrated with algebraic concepts. A scientific calculator is required. A graphics calculator is optional: (TI-83, TI-83 Plus, TI-83 Silver Edition, TI-84 Plus, TI-84 Silver Edition).

3091	<b>HONORS GEOMETRY</b>	9 10	1
3092	Prerequisite – Algebra I		

This course is similar in scope to Geometry. Content will be greater in depth and rigor. Multiple representations integrated with algebraic concepts will be used. Greater emphasis will be placed on applications, multiple step problems, and proofs. Students enrolled in this course should have above average mathematical problem-solving skills. A scientific calculator is required. A graphics calculator is optional: (TI-83, TI-83 Plus, TI-83 Silver Edition, TI-84 Plus, TI-84 Silver Edition).

3071	<b>ALGEBRA II</b>	10 11 12	1
3072	Prerequisite – Geometry or Honors Geometry		

Algebra II is a course recommended for college bound students. Multiple representations are used as settings for work with number properties, graphs, expressions, equations, inequalities, algebraic fractions, functions, and trigonometry. A scientific calculator is required. A graphics calculator is optional: (TI-83, TI-83 Plus, TI-83 Silver Edition, TI-84 Plus, TI-84 Silver Edition).

3101	<b>HONORS ALGEBRA II</b>	9 10 11 12	1
3102	Prerequisite – Geometry or Honors Geometry		

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).

3201	<b>FST (Functions, Statistics, Trigonometry)</b>	10 11 12	1
3202	Prerequisite – Algebra II or Honors Algebra II		

Function, Statistics and Trigonometry integrates statistical and algebraic concepts. Multiple representations are used as settings for work with number properties, graphs, equations, sequence, series, trigonometry, and functions. A graphics calculator is required: (TI-83, TI-83 Plus, TI-83 Silver Edition, TI-84 Plus, TI-84 Silver Edition).

3135	<b>PRECALCULUS WITH TRIGONOMETRY</b>	10 11 12	1
3136	Prerequisite – Honors Algebra II		

Pre Calculus 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. 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-84).

3131	<b>ADVANCED PLACEMENT CALCULUS (AB)</b>	11 12	1
3132	Prerequisite –Pre-Calculus with Trigonometry		

Topics to be studied include elementary functions, limits, differential calculus and integral calculus. Students will be eligible to take the Advanced Placement AB Calculus 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, TI-89).

3133            ADVANCED PLACEMENT CALCULUS II (BC)            11 12            1  
3134            Prerequisite: Advanced Placement Calculus (AB)

A.P. Calculus II (BC) is an extension of the Advanced Placement Calculus (AB) course. Topics covered include all Calculus AB topics. Additional topics to be studied include parametric, polar, and vector functions, analysis of planar curves, differential equations using Euler's method, applications of integrals, integration by parts and simple partial fractions, improper integrals, logistic differential equations, and polynomial approximations and series. Students will be eligible to take the Advanced Placement Calculus BC exam for possible college credit. This full year course will approximate the Calculus II course at the college level. A graphics calculator is required: (TI-84 Plus, TI-84 Silver Edition, TI-89).

MA106 College Algebra – concurrent enrollment with HCC

Prerequisites: An ACT score of 21 or above or appropriate Accuplacer score.

**See page 5 for a complete understanding of enrollment responsibilities**

Topics include theory of equations, functions, inverse functions, complex numbers, determinants, matrices. 3 credit hours.

MA108 Elements of Statistics – concurrent enrollment with HCC

Prerequisite: "C" or better in MA106 College Algebra or an ACT math score of 23 or above.

**See page 5 for a complete understanding of enrollment responsibilities**

Analysis of single variable and bivariate data; probability distribution; normal probability distributions, sampling distributions, statistical inferences involving one and two populations; chi square applications. 3 credit hours.

2319            MATH TUTOR            11 12            1  
                  By Application Only – available from Counselors or Instructor

Students will provide peer tutoring for Algebra I students on homework, skills review, and computer units. The Math Department will notify those students selected for the program. **This class will be taken on a Pass/Fail basis.**

## SCIENCE

COURSE		PREREQUISITE	GRADE LEVEL	CREDIT
3711-3712	Earth Science		9	1
3511-3512	General Science	3523 and 3524	11 12	1
3523-5324	Life Science	3711 and 3712	10 11 12	1
3531-3532	Biology	3711 and 3712	10 11 12	1
3535-3536	Honors Biology		9 10 11 12	1
3541-3542	Chemistry I	3041 and 3042	10 11 12	1
3551-3552	Honors Chemistry I	3041 and 3042	10 11 12	1
3561-3562	Honors Chemistry II	3541 and 3542 or 3551 and 3552	11 12	1
3571-3572	Physics	3041 and 3042	10 11 12	1
3581-3582	Honors Physics	3041-42 and 3101/02	11 12	1
3741-3742	Human Biology		10 11 12	1
3601-3602	Anatomy and Physiology	See Description	11 12	1
3611-3612	AP Biology	3551 and 3552	10 11 12	1

## SCIENCE PROGRESSION

	Freshmen	Sophomore	Junior	Senior
Typical	Earth Science	Biology	Chemistry	Physics or Human Bio.
Modified (teacher recommended)	Earth Science	Life Science	General Science	
Accelerated 1	Honors Biology	Honors Chemistry I	Physics AND/OR Anatomy & Physiology AND /OR Honors Chem. II.	AP Bio. AND/OR Honors Chem. II AND/OR Anatomy & Physiology AND /OR Physics

3711	<b>EARTH SCIENCE</b>	9	1
3712	Recommended for ALL Freshmen		

Earth Science is the study of the planet Earth and its place in space. Earth Science includes topics in geology, astronomy, oceanography and meteorology. These areas of study are supported by topics in chemistry and physics. Emphasis is placed on skills and knowledge that provide a good foundation for understanding our natural world and a good foundation for success in further science course work.

3511	<b>GENERAL SCIENCE</b>	11 12	1
3512	Prerequisite – Passing grade in Life Science <u>and</u> by Science Teacher		

General Science is a year-long course that provides a third science credit to students who have successfully completed Life Science. This is an essential skills course that focuses on the Kansas State Science Assessment standards in chemistry and physics, as well as topics relating to earth and space science. This course will not meet Board of Regents Qualified Admissions Curriculum.

3523	<b>LIFE SCIENCE</b>	10	11	12	1
3524	Prerequisite – Passed Earth Science and Science Teacher or Counselor Recommendation				

This is an essential skills course that focuses on the Kansas State Science Assessment standards in life science. Topics covered in the class include biochemistry, cell biology, genetics, population genetics/evolution, classification and ecology. Laboratory experiments and various types of activities are used to cover these topics.

3531	<b>BIOLOGY</b>	10	11	12	1
3532	Prerequisite – Earth Science (Grade of C or better recommended)				

Biology is the study of living organisms. Topics covered in the class include biochemistry, cell biology, genetics, population genetics/evolution, classification and ecology. Laboratory experiments and various types of activities are used to cover these topics.

3535	<b>HONORS BIOLOGY</b>	9	10	11	12	1
3536	Prerequisite – Grade of A or B in Earth Science – Freshmen enrolling in Honors Biology have earned an A or B in both semesters of 8 <sup>th</sup> grade Accelerated Science.					

The Honors Biology course takes a more in-depth look at the same topics covered in Biology (3531-3532). This course is designed for students who have a strong interest in studying life science content in a more challenging format. Conceptual development of key biological ideas and processes, as well as the development of laboratory investigative skills, are key components of this class. An additional outcome is the development of content-area reading comprehension. This course also prepares students for enrollment in AP Biology.

3541	<b>CHEMISTRY I</b>	10	11	12	1
3542	Recommendation – Algebra I (Grade C or better recommended)				

This course will emphasize building the student's understanding of the fundamental structures and properties of matter. Students will develop core concept of chemistry based on the periodic table, bonding, kinetic theory, and the nature of matter in solutions. Chemistry I connects basic chemistry to the specialty areas of biochemistry, nuclear chemistry, and electrochemistry.

3551	<b>HONORS CHEMISTRY I</b>	10	11	12	1
3552	Recommendation – Algebra I (Grade B or better recommended)				

This laboratory science course deals with the structure and composition of materials and the changes they undergo. The course is designed to give an understanding of the properties and conditions that are involved in reactions. The experimental nature and foundation of chemistry is reinforced by use of numerous laboratory experiments. A large emphasis is made on a student's effort and test scores, for a student's grade. Students enrolled in this program may be eligible for advanced standing with Hutchinson Community College

3561	HONORS CHEMISTRY II	11 12	1
3562	Prerequisite – Chemistry I or Honors Chemistry I (Grade B or better recommended)		

This is an advanced course for students who have an interest in furthering their knowledge of chemistry. Some topics from Honors Chemistry I will be reviewed and other topics will be introduced. There are some field trips taken to help illustrate applications of science. Students will also give several presentations during the school year. Students enrolled in this program may be eligible for advanced standing with Hutchinson Community College. This course is designed for students coming out of Honors Chemistry I. Students from Chemistry I will need instructor approval.

3571	PHYSICS	10 11 12	1
3572	Recommendation – Algebra I (Grade B or better recommended)		

Physics is a laboratory science that first reviews math, metrics, and significant digits. Mechanics topics are covered in the first semester. A sample would include speed, velocity, acceleration, momentum, vectors, and Newton's Laws. Heat energy is also a first semester topic, if time allows. Second semester covers waves (both sound and light), electricity, magnetism, and electronics. Students of physics must have completed Algebra I. A further math background is recommended.

3581	HONORS PHYSICS	11 12	1
3582	Prerequisite: Honors Chemistry I and Algebra I		

Honors physics will cover all of the same topics as physics, but the pace of the course will be faster and topics will be presented in more depth. Honors physics will use the same text book as physics, but the expectation for student performance and individual student responsibility will be greater than regular physics classes. All physics standards will be covered and additionally numerous math standards will be addressed. This course is designed to meet the needs of students who possess advanced math and science skills.

3741	HUMAN BIOLOGY	10 11 12	1
3742	Prerequisites – Biology and Chemistry (concurrent enrollment in Chemistry allowed)		

Students in this course study the technical names for many body structures and how the various systems in their body function. Homework is minimal. Lab activities including working with models and specimens take up the majority of the class time. This course, which is open to anyone who wants 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.

3601	ANATOMY AND PHYSIOLOGY	11	12	1
3602	Recommendation – A or B in both semesters of Biology or Honors Biology and A or B in Honors Chemistry I or concurrent enrollment			

Anatomy and Physiology is a challenging course designed for students thinking about majoring in the more rigorous medical-related fields such as pre-Vet, pre-Med, Masters or BSN in nursing and Physicians Assistant. Human structures and the function of those structures from the chemical to organism level will be emphasized. To do well, students must be able to commit a minimum of a half hour per day on their own time for homework and studying. Coming in occasionally during seminar to work with models, is highly recommended.

3611	AP BIOLOGY	10	11	12	1
3612	Recommendation – Biology and Honors Chemistry I (or concurrent enrollment) Anatomy and Physiology is suggested – see below.				

AP Biology is designed to be the equivalent of an introductory biology course taken during the first year of college. Topics include biochemistry, cells, heredity, evolution, organisms, and population ecology. Two main goals of this class are to develop a conceptual framework for biology and to gain knowledge of science as an investigative process. Movement through coursework is rapid. Students should expect extensive daily preparation and possibly time spent in class before school or after school. Also, due to the extensive amount of material in the AP Biology curriculum, students who are planning to take the College Board AP Biology examination are encouraged to enroll in, or have taken, Anatomy and Physiology (3601-3602). Though not required, students who successfully complete AP Biology are eligible to take the AP Biology exam.



1541	FRENCH V		12	1
1542	Prerequisite – French IV			

This course builds upon previous French studies, focusing on advanced grammar skills and the Literature of Francophone countries. It will be taught in combination with French IV.

1601	GERMAN I	9	10	11	12	1
1602	Prerequisite – None					

This course provides a good foundation for further study in the language by providing a broad basic vocabulary through comprehensible input. Besides listening, conversational, reading and writing skills, the student is exposed to the geography, music, customs, history and art of the culture.

1611	GERMAN II	9	10	11	12	1
1612	Prerequisite German I					

This course builds on vocabulary and structures learned in beginning German with emphasis on expanding vocabulary and increasing listening, conversational, reading and writing skills. Geography of Germany and Europe are also stressed together with additional music, customs, and history.

1621	GERMAN III	10	11	12		1
1622	Prerequisite - German II					

The student continues to develop abilities in reading, speaking and writing exploring further the areas of German culture, including history, literature, music and art. An emphasis is placed on exploration of German literature and the structure of the language.

1631	GERMAN IV		11	12		1
1632	Prerequisite – German III					

The student builds upon what was learned in previous years, exploring advanced grammar structures and further German literature as well as current events. Usually meets at the same time as German III.

1641	GERMAN V		12			1
1642	Prerequisite – German IV					

This course is individualized toward the student's need in advanced language study. The student sets goals of language improvement and work is primarily self-directed. Focus areas will be grammar, literature, and topics of interest to the student. Will meet at the same time as German IV.

1701	SPANISH I	9	10	11	12	1
1702	Prerequisite – None					

The student will acquire basic Spanish grammar, sounds, pronunciation, vocabulary and culture of the language. Besides learning basic conversational skills, the student is exposed to the geography, music, customs, history and art of Spanish speaking countries.

1711	SPANISH II	9	10	11	12	1
1712	Prerequisite – Spanish I					

This course maintains the development of oral competence and grammar with more emphasis on reading and writing. Using their reading ability, students become more aware of the characteristics and attitudes of Hispanic cultures.

1715	HONORS SPANISH – Level I and II accelerated	9	10			1
1716						

This course primarily is for students who want an accelerated class and continue on to studying more advanced level Spanish in high school. They will be taking the class with others who want to achieve and learn the Spanish language at an advanced level. Students would have to take Spanish level 3 in order to complete the 2 year language requirement.

Course progression: Honors Spanish (9<sup>th</sup>), Spanish 3 910<sup>th</sup>) Spanish 4 (11<sup>th</sup>) and Spanish 5 (12<sup>th</sup>)

1721	SPANISH III	10	11	12		1
1722	Prerequisite – Spanish II					

This course continues to increase the student’s ability to converse. The student does a thorough grammar review. In addition to language skills, the student is made aware of the cultural characteristics of Spanish speaking countries. Reading and writing skills will also be emphasized. Mexican Art and literature and Argentine culture will be a focus.

1731	SPANISH IV		11	12		1
1732	Prerequisite – Spanish III					

Students in this course demonstrate increasing proficiency in language skills. Speaking skills begin to reflect increasing accuracy with respect to grammar and pronunciation and are augmented and sustained by the development of reading and writing skills. Exposure to a variety of genres of Spanish literature is a goal. Spanish art and culture will be a focus.

1735	SPANISH V			12		1
1736	Prerequisite – Spanish IV					

This course will stress the application of language skills acquired during the four previous years. Emphasis will be on: reading, literature, and writing. Class will be independent study and meet during Spanish IV.



4151	DESIGN II	11 12	1
4152	Prerequisite – Design I		

A class for the advanced graphics design student. There will be further exploration in typography and graphic design. The graphic artist on computer will cover fashion design, video, design layout, printing, topography and design. Students will purchase an art packet. **Focus will be towards a career as a graphics designer.** This is a designated Tech Prep course. Completion of Design I and II with a “B or better” means that you could earn college credit to be applied toward an Associate of Applied Science degree at Hutchinson Community College. **Additional cost will incur as needed.**

4171	CERAMICS I	10 11 12	.5-1
4172	Prerequisite – Art Basics. No recommendation for a Senior		

This class will be an introduction to the hand-building techniques and wheel form. The course involves glazing, clay mixing, kiln firing and use of different clays.

4181	CERAMICS II	11 12	.5-1
4182	Prerequisite – Ceramics I		

This course is for students who want to continue to develop strengths and improve weaknesses in ceramic work. The class involves working on advanced projects in hand-building and wheel works. This class will have a major role in loading the kilns and glaze formulation. This course will focus on dinner sets. Sketchbook is required.

4183	CERAMICS III	12	.5-1
4184	Prerequisite – Ceramics II		

This course is for students who want to continue to develop strengths and weaknesses in ceramic work. This class involves working on advanced individual projects on the wheel and hand building.

4195	ADVANCED ART	11 12	1
4196	Prerequisite – Art Basics & teacher recommendation		

Students will explore sculpture, painting, mural painting, design and community artwork on an advanced level. They will have the opportunity to create an art portfolio in their area of concentration for their future art career. Art packet required.



4207	<b>ADVANCED DRAMA</b>	11 12	1
4208	Prerequisite: Intro to Drama, Drama II, Permission from Instructor		

This class will continue to advance the acting, directing, and playwriting skills of the students. Students will create performances for the community, younger grades, and classes across the disciplines. They will also peer mentor by working with the underclassmen. Performance is required. Some outside class time will be required. Class may be repeated for credit.

4205	<b>TECHNICAL THEATER</b>	10 11 12	1
4206	By Application Only		

This course is for students to learn the basics of backstage work in theater. They will study set design and construction, theory and usage of lighting and sound, costume design and prop making. Students will be included in all traditional aspects of the fall and spring shows, including setup and running. Tech work outside of class is required as well as attendance at all tech and dress rehearsals and performances. May be repeated for credit.

4401	<b>FRESHMEN CHOIR</b>	9	1
4402			

This course is open to all freshmen. The group rehearses and performs music from the standard mixed chorus repertoire. General music and choral techniques are studied to prepare members for participation in the more advanced choral groups. The choir performs several times during the year, but the course emphasis is more on training rather than performance. Music theory, ensemble literature and solo literature are also studied.

4411	<b>CHAMBER CHOIR</b>	10 11 12	1
4412			

This is a mixed chorus of sophomore, junior and senior voices. Singers not selected for Choraleers or Les Chantes may select Chamber Choir. This choir performs several times during the year. Emphasis is placed on voice production and choral technique to prepare members for participation in the more advanced choral groups. Music theory, ensemble literature, solo literature and piano keyboard skills are also studied.

4421	<b>LES CHANTES</b>	10 11 12	1
4422	By Audition Only		

This is a select group of female voices chosen by audition. The group studies and performs the more advanced selections from the repertoire for women's voices. Les Chantes performs at concerts, programs, churches and music festivals. Each student purchases performance outfits.

4431	<b>CHORALEERS</b>	11 12	1
4432	By Audition Only		

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.

4441	<b>RAILAIRES</b>	11	12	1
4442	Requirement – Must be a member of Choraleers and By Audition			

This is a select mixed ensemble chosen from the membership of Choraleers. The group studies and performs the more advanced selections from the madrigal and chamber choir repertoire, in addition to jazz, pop and show choir material. The Railaires perform each year at concerts, club programs, churches, clinics and festivals. Performance outfits are to be purchased by each student.

4501	<b>BAND</b>	9	10	11	12	1
4502	Recommendation – Permission of Instructor					

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. The band and orchestra rehearse the same hour.

4511	<b>ORCHESTRA</b>	10	11	12	1
4512	Recommendation – Permission from instructor or audition				

This course is a grouping of all string players. Wind and percussion players are chosen from the wind ensemble to perform with the string players, making a full orchestra. String orchestra and full orchestra prepare and perform works from the traditional orchestra repertoire. The orchestra performs 6 to 8 concerts per year and participates in clinics and festivals outside the Newton area.

4513	<b>9<sup>TH</sup> ORCHESTRA</b>	9				1
4514						

This course is a grouping of all the 9<sup>th</sup> grade string players. Wind and percussion players are chosen from the wind ensemble to perform with the string players, making a full orchestra. String orchestra and full orchestra prepare and perform works from the traditional orchestra repertoire. The orchestra performs 4 to 6 concerts per year and participates in clinics and festivals outside the Newton area.

4521	<b>JAZZ ENSEMBLE I</b>	9	10	11	12	1
4522	Requirement – Must be a member of Band or Orchestra and by audition					

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.

4531	<b>JAZZ ENSEMBLE II</b>	9	10	11	12	1
4532	Requirement – Must be a member of Band or Orchestra Recommendation – Permission of Instructor					

This is the same as Jazz I Ensemble, except no audition is required.



6035	PHYSICAL EDUCATION II/WEIGHTS Prerequisite – Physical Education I Recommended for Girl’s only	10 11	.5
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This class will include Red Cross CPR and standard first aid certification and weight training. This course is for the student wanting to earn .5 credit in P. E. while developing muscular strength, muscular flexibility, and muscular endurance. Cardiovascular fitness will also be improved with emphasis on agility, speed, and quickness.

6051 6052	WEIGHT TRAINING	9 10 11 12	1
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Same as course 6055-6056 except this course is for “zero” hour, meeting every day, 7:00 a.m. to 7:45 a.m. This course would be taken in addition to a regular 8-hour schedule. Zero hour classes have the same attendance requirements as do all other classes.

6055 6056	WEIGHT TRAINING Recommendation – Physical Education I	9 10 11 12	1
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This course is for the student interested in developing a fitness program, which includes muscular flexibility, muscular strength, and muscular endurance. This will include using weight equipment with lifts for both upper and lower body. This course will meet during a split block.

6060	PHYSICAL EDUCATION III Prerequisite – Physical Education II	11 12	.5
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This course is for the student who wants to gain knowledge and skill in bowling, archery, pickle ball, swimming, discs, and various fitness activities.

6070	PHYSICAL EDUCATION IV Prerequisite-Physical Education II	11 12	.5
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This course is for the student interested in lacrosse, ping pong, golf, swimming, team handball, ultimate frisbee, ultimate football, and various other fitness activities.

## AGRICULTURE EDUCATION

<u>COURSE</u>		<u>PREREQUISITE</u>	<u>GRADE LEVEL</u>	<u>CREDIT</u>
8101-8102	Technology of Agriscience I		9 10	1
8121-8122	Agri-Business	8101 and 8102	12	1
8131-8132	Agri-Business Internship	Concurrent with 8121 and 8122	12	1-2
8141-8142	Pre-Vocational Ag. Welding		10 11 12	1
81531-81532	Animal Science		10 11 12	1
8161-8162	Wildlife Management/Natural Resources		10 11 12	1
8171-8172	Small Engine Repair		10 11 12	1
8181-8182	Modern Ag Mechanics Skills		9 10	1
8183-8184	Adv. Modern Ag Mechanics	8181 and 8182	10 11	1
8192-8193	Horticulture I		10 11 12	1
8193-8194	Horticulture II	8193 and 8194	11 12	1
8185-8186	Agriculture Equipment Const.	lower level Ag Mech	12	1
8187-8188	Ag Power Mechanics	8171-8172	11 12	1

### **Power, Structural and Technical Pathway**

Freshmen Options	Sophomore Options	Junior Options	Senior Options
Modern Ag Mechanics Tech Ag I	Pre-Vocational Welding Advanced Modern Ag Mechanics	Pre-Vocational Welding Advanced Modern Ag Mechanics Small Engine Repair Ag Power Mechanics	Pre-Vocational Welding Adv. Modern Ag Mechanics Small Engine Repair Ag Power Mechanics Ag Equip. Const. Ag Business Ag Business Internship

### **Plant Science Pathway (Agriculture)**

Freshmen Options	Sophomore Options	Junior Options	Senior Options
Tech Ag I	Horticulture I	Horticulture II	Ag Business Ag Business Internship

### **Ag Science Pathway**

Freshmen Options	Sophomore Options	Junior Options	Senior Options
Tech Ag I	Horticulture I Animal Science Wildlife Management Food Science	Horticulture I Animal Science Wildlife Management Food Science Horticulture II	Horticulture I Horticulture II Animal Science Wildlife Management Food Science Ag. Business Internship

8101 8102	TECHNOLOGY OF AGRISCIENCE I	9 10	1
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This course covers the fundamental skills of welding, ag-mechanics, livestock, crop production, agri-science occupations and careers. Introduction to CDE's, SAE's, and leadership in FFA is an integral part of the course. The onsite outdoor lab enhances classroom learning. Students will become knowledgeable of and have the opportunity to participate in local, state and national FFA activities. Students will be required to purchase gloves, pliers, safety glasses; a cost of \$20.00 is due at enrollment.

8121 8122	AGRI-BUSINESS Prerequisite – Technology of Agriscience I (8101 and 8102)	12	1
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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 record-keeping, 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 agri-business firm in the community.

8131 8132	AGRI-BUSINESS SYSTEMS / INTERNSHIP Prerequisite – Concurrent Enrollment in Agri-Business (8121 and 8122)	12	1-2
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This course is the on-the-job element of the Agri-Business Systems Pathway (8121-8122). 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.

8141 8142	PRE-VOCATIONAL AG WELDING	10 11 12	1
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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, oxyacetylene, tig, 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 CDE's and encouraged to develop SAE's.

81531 81532	ANIMAL SCIENCE	10 11 12	1
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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. Lab activities include artificial insemination, embryo transfer work and general livestock health care training. 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 CDE's (career development experience) and encouraged to develop SAE's (supervised agricultural experience programs)

8161	WILDLIFE MANAGEMENT AND NATURAL	10 11 12	1
8162	RESOURCES		
	This course gives a comprehensive approach to our natural resources and how they can be preserved. Students will develop an awareness of renewable and nonrenewable natural resources. Students will be able to identify major wildlife species and identify occupations related to the areas of Natural Resources and Wildlife Management. Students will be encouraged to incorporate or develop SAE's and compete in related CDE's.		
8171	SMALL ENGINE REPAIR	10 11 12	1
8172	Prerequisite – 8181-8182 or 8101-8102 or 8141-8142		
	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. This is a designated Tech Prep course through Hutchinson Community College.		
8181	MODERN AG MECHANICS SKILLS	9 10	1
8182			
	This course of study will develop basic skills in Agricultural Mechanics. This will include Leadership; Power and Hand Tools; Arc Welding; Gas Welding and Cutting; Homestead Electricity; Internal Combustion Engine and Safety and Career Orientation. Included in this course will be Agriculture Hazardous, Occupational Safety training. Students will receive a safety certificate. Leadership and Personal Development skills are taught through the integration of FFA Career development skills and SAE (supervised agricultural experience programs) activities.		
8183	ADVANCED MODERN AG MECHANICS	10 11	1
8184	Pre-requisite: Modern Ag Mechanic, Technology Ag Science I		
	This is an upper level course with major emphasis on careers in mechanics and engineering. Instruction units include hydraulic systems, electrical systems, power transmission, milling machine and lathe. Students may construct or repair equipment in the area of their specialty. FFA membership is strongly encouraged as students will participate in leadership activities at the District and State level.		
8191	HORTICULTURE I	10 11 12	1
8192	I		
	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.		

8193	<b>HORTICULTURE II</b>	11 12	1
8194	Prerequisite: Horticulture I		

This course is designed to provide students with an overview of the Horticulture industry. Emphasis is placed on information and skills needed to pass following current and future state licensing tests: 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 appropriate 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.

8185	<b>AGRICULTURE EQUIPMENT CONTRUCTION</b>	12	1
8186	Pre-requisite: lower level Ag mechanic course		

Agriculture Equipment Construction is designed for seniors who want to study the design and operation of Ag equipment. Students will apply mechanical skills to the design and construction of agriculture equipment. Students will learn blueprint reading and technical reading for the purpose of construction and assembling agriculture equipment. FFA membership is required. Projects will be entered into the appropriate state or national competitive event for evaluation.

8187	<b>AG POWER MECHANICS</b>	11 12	1
8188	Pre-requisite: Small Engine Repair 8171-8172		

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 programs (SAE) and FFA leadership activities are integral components of the course and provide many opportunities for practical application of instructional competencies.

# Architecture and Construction

Course #	Course Title	Prerequisite	Grade Level	Credit
<b>PATHWAY COURSES</b>				
70105-70106 70107-08 girls	Intro to Industrial Technology		9,10,11,12	.5
70301-70302	Basic Construction Skills		10,11,12	1
7011-7012	Woodworking I	7010	10,11,12	1
7071-7072	Architectural Design	Intro to Engineering Design	10,11,12	1
7021-7022	Woodworking II	Woodworking I , <b>Teacher approval</b>	11,12	1
	Woodworking III	<b>Woodworking II, Teacher approval</b>	12	1
85001	Interior Design		12	.5
<b>SUPPORTING COURSES</b>				
7041-7042	Laser Works	<b>By Application Only</b>	11,12	1-2

## Construction Pathway Progression

Freshmen Options	Sophomore Options	Junior Options	Senior Options
Intro to Industrial Technology	Intro to Industrial Technology Basic Construction Skills Woodworking I	Intro to Industrial Technology Basic Construction Skills Woodworking II	Intro to Industrial Technology Intro to Engineering Design Woodworking I Woodworking II

## Architecture and Pre-Design Pathway Progression

Freshmen Options	Sophomore Options	Junior Options	Senior Options
Intro to Industrial Technology	Architecture Design Basic Construction Skills Woodworking I	Architecture Design Basic Construction Skills Woodworking I	Architecture Design

### 70105or 70106 INTRODUCTION TO INDUSTRIAL TECHNOLOGY

This semester course is designed to introduce students to woods, materials, processes and techniques used in machine woodworking and in the care and use of woodworking tools and equipment. Students will learn overall shop and machine safety. **Students must provide their own clear safety glasses, and tape measure.** This course is the basic introduction course for the Construction Pathway, and is also part of the sequence for Manufacturing and Transpiration Pathways.

### 70107 or 70108 INTRODUCTION TO INDUSTRIAL TECHNOLOGY

This course is the same as 70105 but for girls only  
This semester course is designed to introduce students to woods, materials, processes and techniques used in machine woodworking and in the care and use of woodworking tools and equipment. Students will learn overall shop and machine safety. **Students must provide their own clear safety glasses, and tape measure.** This course is the basic introduction course for the Construction Pathway, and is also part of the sequence for Manufacturing and Transpiration Pathways.

70301	<b>BASIC CONSTRUCTION SKILLS</b>	10 11 12	1.0
70302	This course will provide students with information about equipment, methods and materials used in residential and light commercial construction. Students will learn shop/equipment safety and will develop skills in blueprint reading, rough carpentry and finish carpentry.		

7011	<b>WOODWORKING I</b>	10 11 12	1
7012	Prerequisite – Woodworking Machinery and Techniques		

This full-year course is designed to introduce students to woods, materials, processes and techniques used in machine woodworking and in the care and use of woodworking tools and equipment. Students must provide their own clear safety glasses, and tape measure.

7071	<b>ARCHITECTURAL DESIGN</b>	10 11 12	1
7072	Prerequisite – Intro to Engineering Design		

This course provides students with an Introduction to Architectural Design. Students will become familiar with floor plans, electrical plans, elevation drawings, furniture plans, schedules and architectural renderings using CAD software. This is a designated Tech Prep Course through Hutchinson Community College.

7021	<b>WOODWORKING II</b>	11 12	1
7022	Prerequisite – Woodworking I and Teacher Approval		

This course provides the student an opportunity to develop advanced skills in furniture design, construction and machine operation. This course is for the student who has shown exceptional ability in Woodworking I. Students must provide their own clear safety glasses, and tape measure. Additional fees for individual projects will apply later in the school year.

7025	<b>WOODWORKING III</b>	12	1
7026	Prerequisite – Woodworking II and Teacher Approval		

This course provides the student an opportunity to develop advanced skills in furniture design, construction and machine operation. It is for the student who has shown exceptional ability in Woodworking II. Students will be provided an opportunity to Job Shadow at local industries. Students will design, manufacture and sell a product. Students must provide their own clear safety glasses, lock and tape measure. There will be fees for each individual project.

85001	<b>INTERIOR DESIGN</b>	10 11 12	.5
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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.

7041	LASER WORKS	11 12	1-2
7042	Prerequisite – By Application Only, available from Instructor. Completion of Entrepreneurship/YEK or Woodworking II		

This course is designed to integrate skills students have learned in woodworking, marketing or entrepreneurship classes. These students will process orders, price and manufacture items using the laser engraving machine. This class will work closely with the-small business management program at NHS. Students will set up projects for the laser through computer programs. **Computer skills required. This class may be repeated for credit.**

# BUSINESS EDUCATION

## Career and Technical Education – Business Related

Course #	Course Title	Prerequisite	Grade Level	Credit
<b>PATHWAY COURSES</b>				
50301-50302	Business Essentials		9	.5
8037-8038	Marketing I		10,11	1
8010	Financial Management I		10,11,12	.5
8020	Business Law		10,11,12	.5
8061-8062	Entrepreneurship/YEK	By Application Only	10,11,12	1
5032 – 5032	Accounting I	Computer Technology	10,11,12	1
8041-8042	Marketing II	8037-8038 by Application only	11,12	1
80111-80112	Financial Management II	8010 – Financial Mgt. I	11,12	.5
80311-80312	Business Communications (formerly Jr. Bus. Tech)	Grade if C or better in Computer Technology ( 5051-5052)	11,12	1
80151-80152	Leadership for Business	5051-5052, Computer Tech 8010, Financial Mgt. I	11,12	.5
8071-8074	Small Business Management	YEK and By Application	11,12	1-2
80511-80512	Applied Business Development (Formerly Sr. Bus. Tech)	5051-5052 ( Computer Technology) And 8031-8032 (Business Communications) By Application Only	12	1
5045-5046	Advanced Accounting II	Grade C or better in 5031-5032	12	1
50351 or 50352	Business Economics		12	.5
<b>SUPPORTING COURSES</b>				
5000	Intro to Computers		9,,10,11,12	.5
5051-5052	Computer Technology	5000	9,10,11,12	1
5055-5056	Computer Technology	5000	9,10,11,12	1
5060	Desktop Publishing	5000,5051,5052	11,12	.5
5070	Web Page Design	5000,5051,5052	11,12	.5
5131-5132	Jr. Tech Support	By Application Only	11,12	1
5133-5134	Jr. (IHT) Tech Support	By Application Only	11,12	1
5135-5136	Sr. Tech Support	By Application Only	12	1
5137-5138	Sr. (IHT) Tech Support	By Application Only	12	1



8010	<b>FINANCIAL MANAGEMENT I</b>	10 11 12	.5
	This course provides students with an overview of the American monetary and banking system as well as types of financial institutions and the services and products that they offer. Course content includes government regulations; checking, savings, and money market accounts; loans; and investments.		
8020	<b>BUSINESS LAW</b>	10 11 12	.
	Business law provides an opportunity to explore the history of law, understand our judicial system, and identify legal rights. The course includes several outside speakers and a mock trial is held at the end of the course.		
8061	<b>ENTREPRENEURSHIP/YEK</b>	10 11 12	1
8062	<b><u>By Application only – available from Counselor or Instructor</u></b>		
	Entrepreneurship will acquaint students with the knowledge and skills necessary to own and operate their own businesses. Topics will include economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting, and communication. Students will develop these skills through a hands-on classroom experience and contact with actual business owner. Students will write a competitive workable business plan.		
5031	<b>ACCOUNTING I</b>	10 11 12	1
5032	Prerequisite – Computer Technology		
	This course teaches the fundamental accounting cycles for two types of businesses. The student learns how to operate a service business such as a gift shop organized by one owner. 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. This course is a designated Tech Prep course through Hutchinson Community College.		
8041	<b>MARKETING II</b>	11 12	1
8042	Prerequisite – Marketing I (8037 and 8038)		
	<b><u>By Application only – available from Counselor or Instructor</u></b>		
	This course is an advanced study of marketing and business management. Course work includes sales, advertising, market research, human relations, leadership skills, E-Commerce, and sport marketing. Students have the opportunity to work in a marketing-related job and participate in DECA Club activities. <b>DECA membership required.</b> This is a designated Tech Prep course. Completion of Marketing I and II means you have earned college credit to be applied toward an Associate of Applied Science degree at Hutchinson Community College.		
80111	<b>FINANCIAL MANAGEMENT II</b>	11 12	.5
80112	Prerequisite – Financial Management I		
	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 typically will review annual reports, predict growth rates, and analyze trends. Stock market simulations will be incorporated into this course.		

80311	BUSINESS COMMUNICATION	11 12	1
80312	Prerequisite – Grade of C or higher in Computer Technology		
	Business Communication will help students develop an understanding for effective communications in business situations and environments. Emphasis is placed on all phases of communication: speaking, listening, thinking, responding, reading, writing, communicating non-verbally, and utilizing technology for communications. Business communication functions, processes and applications in the context of business may be practiced through problem-based projects and real-world applications.		
80151 or	LEADERSHIP FOR BUSINESS		
80152	Pre-requisite – Financial Mgt. I	11 12	.5
	The Business Management course will acquaint students with management opportunities and effective human relations. The course provides students with the skills to perform planning, staffing, financing, and controlling function within a business. In addition, the course will provide a macro-level study of the business world, including business structure and finance, and the interconnections among industry, government, and the global economy. The course will also emphasize problem-based, real-world applications of business concepts and use accounting concepts to formulate, analyze, and evaluate business decisions.		
8071	SMALL BUSINESS MANAGEMENT	11 12	2
8072	Required – YEK and application		
8073			
8074			
	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 a workable business plan. DECA membership is required. Students may enroll concurrently as a Hutchinson Community College student. If students choose this option, tuition will be charged. If taken as a high school course ONLY, this is a designated Tech Prep course through Hutchinson Community College.		
80511	APPLIED BUSINESS DEVELOPMENT		
80512	Prerequisite – Computer Technology (5051 and 5052) And Business Communication (8031-8032)		
	<b><u>By Application only – available from Counselor or Instructor</u></b>		
	In this capstone course, Applied Business Development students will practice skills of planning, organizing, directing and controlling functions of operating a business while assuming the responsibilities and risks involved. Students will develop skills in enterprise development, market analysis and financial preparation. This course includes classroom activities as well as involving further study of the field and discussion regarding real-world experiences and applications that students encounter in owning and managing a business. Students will work at both an in-house business as well as at businesses within the community to gain practical hands-on work experience. BPA membership required.		

5045	ADVANCED ACCOUNTING II	11	12	1
5046	Prerequisite – Average Grade of C or better in Accounting I			
	Advanced Accounting 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.			
50351 or 50352	BUSINESS ECONOMICS	12		.5
	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. This course integrates economic principles (such as free market economy, consumerism, and the role of American government within the economic system) with entrepreneurship/business concepts (such as marketing principles, business law, and risk). <b>THIS DOES NOT COUNT AS SOCIAL SCIENCE CREDIT</b>			
5000	INTRODUCTION TO COMPUTERS	9	10 11 12	.5
	This semester course is designed for students to learn or improve their keyboarding technique. Students will develop speed and accuracy as they learn to produce personal and business documents such as letters, memos, reports, tables, and job-related documents. It will also include introductory units in Word, Excel, Access, and PowerPoint. This is a required course for all computer classes.			
5051 5052	COMPUTER TECHNOLOGY Prerequisite – Intro to Computers	9	10 11 12	1
	This <u>full year</u> class will consist of computer concepts, word processing, spreadsheet, database and presentation skills. Units are also included in E-mail, Internet and social/ethical issues in computing. This is a required course for graduation and is a prerequisite to all other computer classes. This course is a designated Tech Prep course through Hutchinson Community College.			
5055 5056	COMPUTER TECHNOLOGY Prerequisite – Intro to Computers	9	10 11 12	1
	Same as 5051 and 5052 <u>except</u> this course is offered "zero" hour, meeting <u>every day</u> 7:00 a.m. to 7:50 a.m. This course would be taken in addition to a regular 8-hour schedule. Zero hour classes have the same attendance requirements as do all other classes.			
5060	DESKTOP PUBLISHING Prerequisite – Computer Technology Recommendation – Grade of C or better in Computer Technology	10	11 12	.5
	This semester class is designed for the student who wants to learn how to create newsletters, brochures, advertisements, flyers, various business forms and mailing forms. This is a designated Tech Prep course through Hutchinson Community College.			

5070	<b>WEB PAGE DESIGN</b>	10 11 12	.5
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Prerequisite – Computer Technology

Recommendation – Grade of C or better in Computer Technology

This semester class is designed for students who want to learn how to design and create a web page through the use of FrontPage 2002 and HTML.

5131	<b>JR. TECH SUPPORT</b>	11 12	1
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5132 Prerequisite – Computer Technology (5051 and 5052) &

Concurrent enrollment in Jr. (IHT) Tech Support (5133 and 5134)

**By Application Only – available from Counselors or Instructor**

This course is for students in their first year of training in computer technical support. Students will be under the guidance of USD #373’s technicians and a classroom teacher, assisting them with a variety of computer/technology related tasks. Students will be problem solvers and will travel to selected schools throughout the district. Students will maintain a notebook documenting their computer tasks. These tasks will include both software and hardware problems.

5133	<b>JR. (IHT) TECH SUPPORT</b>	11 12	1
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5134 Required: Concurrent enrollment in Jr. Tech Support (5131 and 5132)

This course is taken in conjunction with the Jr. Tech Support course listed above. This year long course is a continuation of technical support services offered to USD #373 during the school day.

5135	<b>SR. TECH SUPPORT</b>	12	1
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5136 Prerequisite – Jr. Tech Support (5131 through 5134) &

Concurrent enrollment in Sr. (IHT) Tech Support (5137 and 5138)

This course is for advanced students who have completed the Jr. Tech Support program. Students will serve as mentors to students in the Jr. Tech Support class. They will continue to be problem solvers, travel to schools throughout the district and maintain documentation and records of technological equipment and repairs.

5137	<b>SR. (IHT) TECH SUPPORT</b>	12	1
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5138 Required: Concurrent enrollment in Sr. Tech Support (5135 and 5136)

This course is taken in conjunction with the Sr. Tech Support course listed above. This year long course is a continuation of technical support services offered to USD #373 during the school day.





8461 8462	<b>FOOD SCIENCE</b>	10 11 12	1
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Food Science is a two-semester class in which students use the scientific method to study the biochemistry of food and nutrition. The preparation of edible food products is not the primary purpose, but from time to time such products will be the result of experiments performed. In this class students develop laboratory, writing and reasoning skills.

84701	<b>FAMILY STUDIES</b>	10 11 12	.5
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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. One unit of the semester will be spend discussing other family issues including communication, domestic violence and caring for aging parents.

85403	<b>HUMAN GROWTH AND DEVELOPMENT</b>	10 11 12	.5
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In the Human Growth and Development course, students will learn about the physical, intellectual, emotional, and social growth and development of infants, children, adolescents, young adults, and adults and their development across the life span. Students will study heredity and genetics to find out what their impact is on how individuals develop. Students will investigate each aspect of development and how it pertains to conflict, stress, and relationships. This would be a great course for anyone interested in working in Human Services or Education.

85001	<b>INTERIOR DESIGN</b>	10 11 12	.5
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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.

85101	<b>CONSUMER EDUCATION / PERSONAL FINANCE</b>	11 12	.5
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This course provides practical, usable knowledge from which the students can benefit as they move into the rigors and demands of independent adult living. Students will examine and research major buying decisions such as auto, housing, furniture, etc. Consumer Education provides training in insurance buying, credit accounts, banking activities, investments, budgeting, food and nutrition as well as decision-making. FCCLA may be an integral part of the course. Students may choose to take one or two semesters

85451 85452	<b>CAREER AND COMMUNITY CONNECTIONS</b>	11 12	1.0
	Prerequisites: Intro to FACS, Family Studies, Human Growth & Development		

Career and Community Connections is designed to provide students with an understanding of how to plan for and manage careers in a continuously changing workplace. Students will learn to explore multiple career paths and will build on the inter-relatedness between occupations when applying career development strategies throughout their life span.



82007 or 82008	CONSUMER AUTO CARE CLASS	10 11 12	.5
	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.		
82011	AUTO TECHNOLOGY I A (first semester) Must enroll concurrently in Auto Technology IA, IB & IC Requirement – By Application Only – available from Counselor or Instructor	11 12	.5
	A comprehensive, technical level course designed to provide students with the basic skills needed to inspect, understand and diagnose engine control systems. Students are required to purchase a pair of safety glasses at an approximate cost of \$10.00.		
82013	AUTO TECHNOLOGY I B ( First Semester) Must enroll concurrently in Auto Technology IA, IB & IC	11 12	.5
	A Comprehensive technical level course covering the tools, skills and techniques required to perform base engine mechanical repair and testing. This includes engine removal, installation and maintenance.		
82012 82014	AUTO TECHNOLOGY I C (second semester) Must enroll concurrently in Auto Technology IA,IB & IC	11 12	1
	A comprehensive, technical level course designed to provide students with the basic theories, equipment and skills needed to inspect and service electrical systems.		
82112	AUTO TECHNOLOGY II A (first semester) Prerequisite – Auto Technology IA,IB & IC By Application only Must enroll concurrently in Auto Technology II A , IIB, IIC & IID	12	.5
	A comprehensive application level course designed to provide students with the skills with the basic theories, equipment and skills needed to inspect, service steering and suspension systems. Auto IIA is for advanced students. Emphasis will be placed on advanced technical training. Students will develop skills needed either to work in a repair shop or continue their education in the automotive area.		
82113	AUTO TECHNOLOGY II B (first semester)	12	.5
	A comprehensive technical level course designed to provide students with the basic theories, equipment and skills needed to inspect and service braking systems. Auto IIB is for advanced students. Emphasis will be placed on advanced technical training. Students will develop skills needed either to work in a repair shop or continue their education in the automotive area.		
82112	AUTO TECHNOLOGY II C (second semester)	12	.5
	A comprehensive application level course designed to provide students with the advanced skills needed to inspect, service and repair steering and suspension systems. Auto IIC is for advanced students. Emphasis will be placed on advanced technical training. Students will develop skills needed either to work in a repair shop or continue their education in the automotive area.		
82114	AUTO TECHNOLOGY II D (second semester)	12	.5
	A comprehensive technical level course designed to provide students with the basic theories and skills needed to inspect and service drive train components. Auto IID is for advanced students. Emphasis will be placed on advanced technical training. Students will develop skills needed either to work in a repair shop or continue their education in the automotive area.		



## Industrial and Manufacturing–Welding Technology

Course #	Course Title	Prerequisite	Grade Level	Credit
70105	Intro to Industrial Technology		9,10,11,12	.5
8301-8308	Welding I		11,12	4
8311-8318	Welding II	Welding I	11,12	4

### Industrial and Manufacturing Pathway – Welding

Freshmen Options	Sophomore Options	Junior Options	Senior Options
Intro to Industrial Technology		Welding I	Welding II

70105 INTRODUCTION TO INDUSTRIAL TECHNOLOGY 9 10 11 12 .5

70106 This semester course is designed to introduce students to woods, materials, processes and techniques used in machine woodworking and in the care and use of woodworking tools and equipment. Students will learn overall shop and machine safety. **Students must provide their own clear safety glasses, and tape measure.** This course is the basic intro course for the Construction Pathway, and is also part of the sequence for Manufacturing and Transpiration Pathways.

8301 WELDING TECHNOLOGY I 11 12 4

8302 Requirement – By Application Only – available from Counselor

8303

8304 Welding Technology I and II make up a two year career preparatory program designed to place  
 8305 students directly into the welding industry. Students enroll Monday through Friday for 3 hours  
 8306 per day. This comprehensive welding program covers courses in both the theory and practical  
 8307 applications of Shielded Metal Arc Welding, oxyacetylene welding, cutting, brazing, soldering,  
 8308 and industrial shop safety. Related areas that a student will complete in welding include air  
 carbon arc gouging, safe use of manufacturing equipment, shop math and measuring.  
 Throughout the class, positive work behaviors such as regular attendance, leadership, teamwork  
 and communication skills are emphasized. These and other work skills will be accomplished  
 through the student’s participation in the Skills USA VICA Student Organization. Seniors who  
 enroll in Welding Technology I have the option of completing their second year through  
 Hutchinson Community College (Newton Center). Students are expected to provide their own  
 work clothing, which includes steel-toed work boots, gloves, pliers, welding leathers, welding  
 hood, and personal tools. There are no initial fees.

8311	WELDING TECHNOLOGY II	12	4
8312	Prerequisite – Welding Technology I		
8313	By Application Only – available from Counselor		
8314			
8315	Welding Technology II meets Monday through Friday for 3 hours per day and covers courses		
8316	in Gas Metal Arc Welding (MIG), Gas Tungsten Arch Welding (TIG), blueprint reading, plasma		
8317	arc cutting, pulse welding, and Computer Numerical Control cutting machine techniques are		
8318	covered. Students will also learn 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. Field trips to manufacturing shops in the area will be		
	provided for students to promote occupational awareness. On successful completion of this		
	program, students may enroll in Hutchinson Community College’s Associate Degree program.		
	Students may then request transfer of welding program credits into their degree program ( up to		
	32 college credits).		



12111	NEWSPAPER PRODUCTION	10 11 12	1
12112	Prerequisite – Introduction to Journalism or Digital Media and Teacher Approval.		
	This is a lab course in which students will write, edit, design and layout the school newspaper, The Newtonian, and produce online content. 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. Students will also build skills needed to communicate messages to the public as it relates to topics of concern involving government and public administration. Topics will include conflict awareness, reliability of sources, creating publicity materials, public relations campaigns and working with media. This course may be repeated for credit.		
41411	DESIGN I	10 11 12	1
41412	Prerequisite – Art Basics		
	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. Color theory and graphic design will be emphasized. Fashion design, silk-screen, paper-cut techniques, fabric and textile projects will be included. The use of the computer as an art tool will be introduced. Students will purchase an art packet.		
4151	DESIGN II	11 12	1
4152	Prerequisite – Design I		
	A class for the advanced graphics design student. There will be further exploration in typography and graphic design. The graphic artist on computer will cover fashion design, video, design layout, printing, topography and design. Students will purchase an art packet. <b>Focus will be towards a career as a graphics designer.</b> This is a designated Tech Prep course. Completion of Design I and II with a “B or better” means that you could earn college credit to be applied toward an Associate of Applied Science degree at Hutchinson Community College. <b>Additional cost will incur as needed.</b>		
12211	YEARBOOK PRODUCTION	10 11 12	1
12212	Prerequisite – Introduction to Journalism or Digital Media-and Teacher Approval.		
	This is a lab course in which students will create the school yearbook, <b>The Railroader</b> , and produce online content. This course will provide students with the opportunity to apply the fundamental techniques learned in Digital Media and Intro to Journalism through the production of a multi-media project for public presentation. Topics include developing a production schedule, working as a team, utilizing composition principles and embedding audio, video or other content in digital formats. 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.		
1271	BROADCAST PRODUCTION	10 11 12	1
1272	Prerequisite – Introduction to Journalism or Digital Media and Teacher Approval		
	This is a lab course in which students will create videos for publication. Students will be responsible for covering various school events and activities using video equipment and creating stories using footage, interviews and reporting skills. Students taking this course must be self-directed, with the ability to work with others. Leadership, cooperation and high standards of achievement are essential in all staff members. This course may be repeated for credit.		



## NHS –HCC CONCURRENT CLASSES

### AL 131 Geriatric Aide/Certified Nurse Aide

**Requirement:** Class participants must take a Compass Reading Placement Test with HCC before enrolling in the class.

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.

This class may require commitment of time for evening clinicals. Students must also enroll in EM131 Cardiac Care

Students must pass both theory and clinical portions; meets state requirements for Certified Nurse Aide state exam; 105 clock hours.

### BU204 Small Business Management

Prerequisites: Approved Asset or Compass Reading Score or ACT Reading score of 17 or above.

Skills needed to successfully open and operate a new or existing business; financial statements using the desired income approach for starting a new business; analysis of potential markets; financing of the business, location, lay out and legal forms of ownership. 3 credit hours

### EM131 Cardiac Care

Cardiac function, disease and treatment modalities for various cardiac emergencies; basic anatomy and physiology; cardiac disease and the risk factors involved in cardiovascular degeneration; sudden cardiac death and the probable causes along with treatment modalities. .5 credit hours

### EN101 English Composition 1A – Essentials of Composition

Prerequisite: Appropriate Asset or Compass Writing score or ACT English score of 20 or above.

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. 3 credit hours

### EN102 English Comp II

Prerequisite: grade of “C” or better in EN101

Compositions of techniques of persuasive and research writing and critical reading and writing on selected thematic units. 3 credit hours.

### GO100 American Government

Prerequisites: Approved Asset or Compass Reading Score or ACT Reading score of 17 or above.

American system of government with special emphasis on constitutional developments, structure and operation and the changing nature of federal government. 3 credit hours.

## MA106 College Algebra

Prerequisites: An ACT score of 21 or above or appropriate Accuplacer score.

Theory of equations, functions, inverse functions, complex numbers, determinants and matrices. 3 credit hours.

## MA108 Elements of Statistics

Prerequisite: "C" or better in MA106 College Algebra or an ACT math score of 23 or above.

Analysis of single variable and bivariate data; probability distribution; normal probability distributions, sampling distributions, statistical inferences involving one and two populations; chi square applications. 3 credit hours.

## MU103 Aural Skills I

Prerequisite: Approved Asset or Compass reading score or ACT reading score of 17 or above.

Development of listening processes using the aural study of intervals, sight singing, melodic and two part dictation. 1 credit hour

## MU104 Aural Skills 2

Prerequisite: MU103 Aural Skills I with a grade of C or better

Continuation of MU103 Aural Skills I

## MU106 Music Theory I

Prerequisite: Asset or Compass reading score or ACT reading score of 17 or above.

Elementary harmony with part writing from figured basses and given sopranos in major and minor keys and using triads and seventh chords in all inversions. 3 credit hours.

## MU107 Music Theory II

Prerequisite: MU107 Music Theory 1 with grade of C or better

Elementary harmony with part writing from figured basses and given sopranos in major and minor keys and using triads and seventh chords in all inversions. 3 credit hours.

## PS100 General Psychology

Prerequisites: Approved Asset or Compass reading score or ACT reading score of 17 or above.

A survey of the fundamental principles of behavior, including physiological, perceptual, historical, methodological, learning, memory, development, motivational, emotional, social and applied perspective. 3 credit hours.

## SPECIAL PROGRAMS

8081 HEALTH CAREERS EXPLORATION 11 12 1  
 8082 Recommendation – By application only, computer skills recommended

Juniors and seniors are eligible with seniors given priority for this course consisting of in-depth exploration of various health care professions. Students will examine the health care industry by researching, discussing, observing, and investigating the education, skills and interests required of various health care professions. This is a two semester course and during the spring semester students job shadow at various health care facilities in Newton. While shadowing, students will be leaving the high school during one period of the school day to observe and work with a health care professional. Prior to shadowing, students will need to receive a TB skin test at a cost of \$17.00. This test will be given during class and will be administered by nurses from the Harvey County Health Department. Membership in the Health Occupations Students of America (HOSA) Club is required. The club meets mainly during class but may also meet outside of class for various activities. State and National dues for HOSA are approximately \$17.00.

3752 METEOROLOGY – 10 11 12 .5  
 Interactive Distance Learning Class

This semester long course will be a journey designed for sophomores to seniors through the basic principles of atmospheric sciences. The dynamic weather patterns of Kansas make this subject matter of particular interest. Advantage of these atmospheric changes is taken as this course is offered in the spring semester in order to better utilize these natural conditions. This creates a more authentic and practical educational experience, linking the classroom experience to the real world. Topics will include heating the atmosphere, humidity, clouds, air pressure, air masses, weather patterns, thunderstorms, hurricanes and climate. Students will be able to identify the key components that affect our weather including temperature and pressure changes as well as moisture and the structures of large storm systems.

TEACHER AIDE/OFFICE AIDE 11 12 .5-1  
 Requirement – By Application Only

**Only one section per semester can be taken by the student; only one credit may apply toward graduation; enrollment is for credit/no-credit only. See Counselor for Aide Course Number.**

2780 COMMUNITY AIDE 12 .5-1  
 Requirement – By Application Only

Students interested in serving as aides should contact area schools for information about openings. Applications may be obtained in the student service office. Both administration and area school administrator must grant approval.

7991	CAREER INTERNSHIP	12	.5
7992	Requirement – Students must complete an application (available from Ms. Lucas at Brooks Trade Center). The application should be returned to Ms. Lucas several weeks prior to the semester of study. No medical – Students interested in Medical Careers should enroll in Health Careers Class.		

This course is designed for students interested in learning more about a particular career field. Career internship students work with an adult active in the career of their choice, and do a combination of observation and research. Students must have an idea of a specific career to study and be willing to provide transportation to and from the internship site. Minimum requirements for evaluation include a reflective essay or project, a daily journal and attendance logs.

COLLEGE EXTENSION	11	12	1-2
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Requirement – Students must be in good standing at Newton High School

A student may elect to take college classes for dual credit while at Newton High School. To earn dual credit, the student must inform his/her counselor of the intent, turn in verification of enrollment in the class and perform at a satisfactory level in the course. **One-half credit is given for each three to five credit hour college course.** Students must be a junior, senior, or be on a gifted IEP to enroll. Each school may have a minimum standard for acceptance. See your counselor for a permission form.

7950	Bethel Extension
7960	WSU Extension
7965	Butler CC Extension
7970	Hesston Extension
7975	Cowley CC Extension
7980	Hutchinson CC Extension