

HUTCHINSON HIGH SCHOOL COURSE DIRECTORY

2014-15

The following table represents the myriad of courses offered at Hutchinson High School. The table shows the course title, the credit earned for the course, the grade level eligible to enroll in the course and the prerequisites needed before you may enroll in the course. A brief description of each course by department will follow the table below. Contact the department chairperson or your counselor for more information regarding each course. Pressing Ctrl F will allow you to search for individual course names.

GRADUATION REQUIREMENTS

Subject	Credit
English	4
Math	3
Freshman Science	1
Biology	1
Science Elective	1
World History	1
Civics/Economics	.5
U.S. History	1
American Government	.5
Communications	.5
Career and Technology	1
Fine Arts	1
Health	.5
Physical Dimensions	.5
PE Elective	.5
Electives	9
Total Credits	26

COURSES AND CREDITS REQUIRED FOR GRADUATION FROM HUTCHINSON HIGH SCHOOL.

FINE ARTS CREDITS

Any whole credit in the following will satisfy the HHS requirements: All Art classes, all Drama classes, Technical Theatre, all Orchestra, all Band classes, all Choir classes, all Computer Graphics, Drafting, and Digital Photography.

CARRER AND TECHNOLGY EDUCATION CREDITS

Any combination of courses from the Career and Technology Education Academy will count towards this one whole credit requirement. This credit was formerly called the "Computer Credit" requirement but is no longer a Kansas Regents Curriculum requirement.

GRADUATING WITH HONORS

The following criteria will be used for special recognition at graduation. **All** criteria and calculations must be complete by the end of the second trimester of the senior year.

Graduation with High Honors - Must meet all criteria

1. 3.6 or higher unweighted GPA with 18 trimesters of honors classes or 3.8 **OR** higher unweighted GPA without 18 trimesters of honors classes.
2. Score proficient or above on all state tests or at least 29 on the ACT.
3. No grade lower than a C-.

Graduation with Honors – Must meet all criteria

1. 3.3 or higher unweighted GPA with 16 trimesters of honors classes or 3.6 higher **OR** unweighted GPA without 16 trimesters of honors classes.
2. Score proficient or above on all state assessments or at least 27 on the ACT.
3. No grade lower than a C-.

REQUIREMENTS TO PARTICIPATE IN GRADUATION CEREMONY

Seniors at Hutchinson High School must have completed all of their graduation requirements and the required 26 credits before they are allowed to walk in the graduation ceremony. This includes all Learning Center credits being completed before graduation practice the Friday before graduation.

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To FIND a particular class, press ctrl F, and then type in the name of the class you wish to search.

Kansas Career Fields and Clusters Model

Agriculture, Food, and Natural Resources

- Animal Systems
- Agribusiness Systems
- Biotechnology in Agriculture
- Environmental Service Systems
- Food Products and Processing Systems
- Natural Resources Systems
- Plant Systems
- Power, Structural, and Technical Systems

Business Management and Administration

- Administrative Services
- Business Information Management
- Human Resources Management
- General Management
- Operations Management

Finance

- Banking Services
- Business Finance
- Securities and Investments
- Insurance
- Accounting

Hospitality and Tourism

- Lodging
- Recreation, Amusements, and Attractions
- Restaurants and Food and Beverage Services
- Travel and Tourism

Marketing

- Merchandising
- Marketing Management
- Marketing Communications
- Marketing Research
- Professional Selling

Government and Public Administration

- Revenue and Taxation
- Foreign Service
- Governance
- National Security
- Planning
- Public Management and Administration
- Regulation

Education and Training

- Administration and Administrative Support
- Professional Support Services
- Teaching/Training

Human Services

- Consumer Services
- Counseling and Mental Health Services
- Early Childhood Development and Services
- Family and Community Services
- Personal Care Services

Law, Public Safety, and Security

- Correction Services
- Emergency and Fire Management Services
- Law Enforcement Services
- Legal Services
- Security and Protective Services

Environmental and Agricultural Systems

Arts, Communication, and Information

Arts, AV Technology, and Communications

- Audio/Video Techniques
- Journalism and Broadcasting
- Performing Arts
- Printing Techniques
- Telecommunications Techniques
- Visual Arts

Information Technology

- Information Support and Services
- Web and Digital Communications
- Network Systems
- Programming and Software Development

Business, Marketing, and Finance

Foundation Knowledge and Skills

Academic and Technical Skills

- Employability
- Ethics
- Systems
- Teamwork
- Career Development
- Problem Solving
- Critical Thinking
- Information Technology Application
- Legal Responsibilities
- Communication
- Safety, Health, and Environment

Industrial, Manufacturing, and Engineering Systems

Architecture and Construction

- Construction
- Design and Pre-construction
- Maintenance and Operations

Manufacturing

- Production
- Manufacturing Production Process Development
- Maintenance, Installation, and Repair
- Quality Assurance
- Logistics and Inventory Control
- Health, Safety, and Environmental Assurance

Transportation, Distribution, and Logistics

- Facility and Mobile Equipment Maintenance
- Health, Safety, and Environmental Management
- Logistics Planning and Management Services
- Sales and Services
- Transportation Operations
- Transportation/Systems Infrastructure Planning, Management, and Regulation
- Warehousing and Distribution Center Operations

Science, Technology, Engineering, and Mathematics

- Engineering and Technology
- Science and Math (Investigative, Informational, and Educational)

Health Science

Health Science

- Biotechnology Research and Development
- Diagnostic Services
- Supportive Services
- Health Informatics
- Therapeutic Services

KANSAS BOARD OF REGENTS REQUIREMENTS

Qualified Admissions (QA) are a set of standards used by the six state universities to review applicants for undergraduate admission. For an updated list for the class of 2014-15 and beyond, go to the Kansas Board of Regents website at: [Kansas Board of Regents Qualified Admission Requirements](#).

KANSAS QUALIFIED ADMISSION REQUIREMENTS

English 9	1.0
English 10	1.0
English 11	1.0
College Prep English 12	1.0

Chemistry or Physics	1.0
Courses selected from Biology, Advanced Biology, Chemistry, Anatomy and Physiology, Botany/Environmental Science, or Physics	2.0

Algebra	1.0
Geometry	1.0
Advanced Algebra (3 units of math in high school, Algebra I and above)	1.0

AND students must meet the 22 ACT Math score benchmark. If no ACT Score, a fourth year of math, Alg II or higher is required!
Middle School math will not apply.

World History	1.0
Civics	0.5
U.S. History	1.0
American Government	0.5

KANSAS SCHOLARS CURRICULUM REQUIREMENTS (SCHOLARSHIP COMPETITION)

English 9	1.0
English 10	1.0
English 11	1.0
College Prep English 12	1.0

Biology	1.0
Chemistry	1.0
Physics	1.0

Algebra	1.0
Geometry	1.0
Advanced Algebra	1.0
Advanced Math (FST or Higher)	1.0

World History	1.0
Civics	0.5
U.S. History	1.0
American Government	0.5

Career & Technical Education	1.0
Foreign Language (2 years of one language)	2.0

ART

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COURSE TITLE	CREDIT	GRADE LEVEL				PREREQUISITE
		<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	
Fundamentals of 2D Art	0.5	ⓐ	ⓐ	ⓐ	ⓐ	None
Drawing and Painting	0.5	ⓐ	ⓐ	ⓐ	ⓐ	Fundamentals of 2D Art
Adv Drawing and Painting	0.5		ⓐ	ⓐ	ⓐ	Draw/Paint & Permission
Fundamentals of 3D Art	0.5	ⓐ	ⓐ	ⓐ	ⓐ	None
Sculpture	0.5		ⓐ	ⓐ	ⓐ	Fundamentals of 3D Art
Ceramics	0.5		ⓐ	ⓐ	ⓐ	Fundamentals of 3D Art
Advanced Ceramics	0.5			ⓐ	ⓐ	Ceramics and Permission
Jewelry	0.5			ⓐ	ⓐ	3D Art and Permission
Introduction to Glass	0.5			ⓐ	ⓐ	3D Art and Permission
IB Visual Arts SL	1.0			ⓐ	ⓐ	All art classes
IB Visual Arts HL	1.0			ⓐ	ⓐ	All art classes

FUNDAMENTALS OF 2 DIMENSIONAL ART

Grade Level: 9-12 **Credit: ½**

Students will use a variety of materials including pencils, colored pencils, pastels, and mixed media to demonstrate principles and elements of design. Portfolios will be developed. This class is a prerequisite to all drawing and painting and advanced art classes. Students interested in IB Visual Arts must take this course.

DRAWING & PAINTING

Grade Level: 9-12 **Credit: ½**

The students will draw and paint in a variety of media: pencil, charcoal, ink, watercolor, and pastels. The emphasis will be to provide students opportunities to increase their technical ability.

IB VISUAL ART SL

Grade Level: 11-12 **Credit: 1**

This class is a program that requires students to accomplish the same criteria listed in the (HL) description. Students will have one year to complete a portfolio of 8-12 works and investigative workbooks.

IB VISUAL ART HL

Grade Level: 11-12 **Credit: 1**

This course is a continual process of exploration and experimentation into your own creative artistic potential. Students will use research, critical thinking, technical skills, and analytical thinking to study art. This is a 2 year program (1 credit per yr.) that requires students to prepare a portfolio of 10 to 15 finished art works that demonstrate creative thinking, technical skills, understanding of media, persistence in research, excellent use of elements and principles of design and the ability to evaluate one's own work. This portfolio is formally exhibited. Students also prepare research workbooks reflecting the processes and growth, as well as the design, creation, and explanation of finished studio works. Students will also meet with a visiting examiner appointed by IB to evaluate their accomplishments, intentions, and understanding of the topics covered.

ADVANCED DRAWING & PAINTING

Grade Level: 10-12 Credit: 1/2

This class will consist of independent study projects under the direction of the instructor, keeping sketch books, and developing portfolios. This course can be taken for credit as many times as you take the class. Students must work well with others and independently.

JEWELRY

Grade Level: 11-12 Credit: 1/2

Students enrolled in this course will examine constructed and cast jewelry techniques. Creative approaches to formulating jewelry will be stressed.

FUNDAMENTALS OF THREE-DIMENSIONAL ART

Grade Level: 9-12 Credit: 1/2

This course is designed to introduce the student to various processes associated with clay and 3D materials. Particular emphasis will be placed upon learning, understanding and using the Elements and Principles of Design. The use of craftsmanship, creativity and problem solving skills will be stressed greatly. This is a prerequisite for jewelry, sculpture, and ceramics and glass.

CERAMICS

Grade Level: 10-12 Credit: 1/2

This class consists of the exploration of various hand building and wheel throwing techniques. All projects are made from clay.

ADVANCED CERAMICS

Grade Level: 10-12 Credit: 1/2

Students enrolled in this class will continue to examine clay as a creative element. Advanced students are given instruction in clay and glazing, kiln loading, and kiln firing.

INTRODUCTION TO GLASS

Grade Level: 11-12 Credit: 1/2

This class will introduce students to the basics of glass. They will learn cold glass techniques such as glass mosaic and/or stained glass. They will also be exposed to a limited amount of hot glass such as slumping and fusing.

SCULPTURE

Grade Level: 10-12 Credit: 1/2

This course consists of exploring various sculpture forming techniques. Using materials creatively will be stressed.

COMMUNICATIONS

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COURSE TITLE	CREDIT	GRADE LEVEL				PREREQUISITE
		<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	
Debate	1.0	@	@	@	@	1 st trimester
Debate/Forensics	1.0		@	@	@	2 nd trimester
Forensics	1.0	@	@	@	@	3 rd trimester
Drama A	0.5	@	@	@	@	None
Drama B	0.5	@	@	@	@	Drama A (B or Better)
Advanced Drama	0.5	@	@	@	@	Drama A and B (B or Better)
Technical Theatre	0.5	@	@	@	@	
Theory of Knowledge	1.0			@	@	None
IB Theatre Arts SL	1.0			@	@	Drama A (B or Better)

DEBATE T1 & DEBATE/FORENSICS T2

Grade Level: 9-12 Credit: 1

This course is open to students who wish to explore in depth the art of competitive debate. Students will learn skills of researching, speaking, analytical thinking, and argumentation. The student must be available for out-of-class work sessions and for weekend debate tournaments. (.5 credit per trimester) Both trimesters are required with five tournaments. This class satisfies the Speech requirement for graduation.

ADVANCED DEBATE

Grade Level: 10-12 Credit: 1

Emphasis will rest mainly on researching current resolutions and preparing cases and arguments for tournaments. (.5 credit per trimester) Debaters must complete six tournaments and be enrolled in both 1st and 2nd trimesters. This class satisfies the Speech requirement for graduation.

DEBATE/FORENSICS T2 & FORENSICS B T3

Grade Level: 9-12 Credit: 1

This course will focus on two aspects of our forensic program. In Competitive Speech, individual events and student congress will be introduced. Students will begin preparation on two individual events plus student Congress legislation. Students will also work on the competitive aspect of individual events and the initial research of the upcoming policy debate topic. (.5 credit per trimester) This class satisfies the Speech requirement for graduation.

DRAMA A

Grade Level: 9-12 Credit: ½

Drama A offers some of the basic principles of the many elements of theatre. Emphasis is placed upon developing skill in presenting duet acting scenes, analyzing scripts and characters, delving into theatre history, and obtaining a working vocabulary of theatre jargon. Plays are read and studied in detail. Students are required to attend all HHS productions. This class satisfies the Speech requirement for graduation.

DRAMA B

Grade Level: 9-12 Credit: 1/2

Drama B continues the basic principles of theatre studied in Drama A. Emphasis is placed upon developing skills in play writing and directing. Theatre vocabulary and play analysis are stressed. Students are required to attend all HHS productions.

ADVANCED DRAMA

Grade Level: 9-12 **Credit: 1/2**

Advanced Drama is a course dedicated to the presentation of a play. In preparation for this play, intensive independent study of all necessary play production elements will occur. Students will use these elements for that particular literary work. These will include, but are not limited to, stagecraft, acting techniques, directing methods, literary analysis, and research into time periods and playwrights. This class may be taken as many times as desired. Students are required to attend all HHS productions.

TECHNICAL THEATRE

Grade Level: 9-12 **Credit: 1/2**

This course is designed for those who enjoy the backstage work of the theatre. Students will design and then build or implement the design. Projects will include set pieces and props, lights, sound effects, special effects, and much more. Students should plan to work several hours per week outside of class on productions and events which utilize the skills they're learning. This class may be taken as many times as desired. Students will make four to five formal presentations to the class. Students are required to attend all HHS productions. This class satisfies the speech requirement for graduation.

THEORY OF KNOWLEDGE (TOK)

Grade Level: 11-12 **Credit: 1**

This is an excellent course for any college bound junior or senior who wishes to expand awareness of how arts, languages, sciences and social studies interrelate to affect modern thought. Course work encourages students to build critical thinking skills, which will enable them to act responsibly as global citizens in an increasingly interconnected world. Interdisciplinary projects that promote systemic thinking, logic and reasoning will be emphasized. Field trips, guest speakers and expert panels will play major roles in the course. This course satisfies the speech requirement for graduation. Both parts are required for IB diploma candidates.

IB THEATRE ARTS SL

Grade Level: 11-12 **Credit: 1**

This course is designed to deepen the student's awareness as to the nature of theatre and its role in society. During this course, students will engage in a variety of activities that include in-depth discussions of world literature, critical analysis of the literature and characters, role-playing, acting, directing, playwriting, technical work and journaling. Each student enrolled will be required to take the class for either an IB diploma or an IB certificate.

ENGLISH

COURSE TITLE	CREDIT	GRADE LEVEL				PREREQUISITE
		<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	
Freshman English	1.0	ⓐ				None
Honors Freshman English	1.0	ⓐ				Application
Sophomore English	1.0		ⓐ			Freshman English
Honors Soph English	1.0		ⓐ			Application
Junior English	1.0			ⓐ		Sophomore English
Honors Junior English	1.0			ⓐ		Application
IB Lang A1 Junior Level	1.0			ⓐ		Application
Senior English	1.0				ⓐ	Junior English
College Prep Senior English	1.0				ⓐ	Junior English
Hnrs College Prep Eng	1.0				ⓐ	Application
IB Lang A1 Senior Level	1.5				ⓐ	Application

All students must take four years of English. Students must pass all required trimesters of English each year before progressing to the next level of English. Composition is an important part of all English classes. Writing will be assessed by the six-trait analytical model adopted by the Kansas State Board of Education. Decisions about Honors English placement will be year long. Due to the importance of discussion and written expression in meeting Language Arts Outcomes, students are discouraged from testing out of English classes.

FRESHMAN ENGLISH A

Grade Level: 9 **Credit: ½**

English 9A includes short stories, *To Kill a Mockingbird*, *The Miracle Worker*, and nonfiction. Students will also study spelling, the Eight Parts of Speech and composition. This course is designed in part to prepare students for admission to a university.

FRESHMAN ENGLISH B

Grade Level: 9 **Credit: ½**

English 9B includes *Romeo and Juliet*, a novel and poetry. Students will also study spelling, Subject-Verb Agreement, Verb Usage and composition. This course is designed in part to prepare students for admission to a university.

HONORS FRESHMAN ENGLISH A & B

Grade Level: 9 **Credit: 1**

This freshman-level course introduces students to the basics of expository, analytical research and critical writing. Students engage in critical readings of major texts of world and American literature (plays, novels, short stories) and examine them in light of their historical contexts. Students learn to recognize the elements of fiction and to appreciate the craft of literature. The course devotes considerable time to vocabulary development and grammar and usage skills. Students will be expected to read selected texts during the summer. Students planning/hoping to take the IB curriculum must take this course. Students must apply and be accepted. This class is highly recommended if you are considering MYP. It prepares you for the IB program your Junior and Senior years. The course is designed in part to prepare students for admission to a university.

SOPHOMORE ENGLISH

Grade Level: 10 **Credit: 1**

Short stories, poetry, drama, a novel, and nonfiction will be read, discussed and analyzed. Students will write on a variety of topics. This course is designed in part to prepare students for admission to a university.

HONORS SOPHOMORE ENGLISH

Grade Level: 10 **Credit: 1**

This sophomore-level course continues students' studies of expository writing. Students read a variety of works including plays, novels, nonfiction and poetry. They continue to develop their vocabulary and writing skills. Students will learn to write critical essays. Required summer reading and writing assignments will be available in May and due prior to the beginning of school in the fall. Students must apply and be accepted. This class is highly recommended if you are considering MYP. It prepares you for the IB program your Junior and Senior years. The course is designed in part to prepare students for admission to a university.

JUNIOR ENGLISH A & B

Grade Level: 11 **Credit: 1**

Time is spent on the chronological study of the beginnings of American literature. Other study is arranged around the following genres: short stories, nonfiction, poetry, novel, and drama. The course also includes creative, narrative, and expository compositions and two research projects. This course is designed in part to prepare students for admission to a university.

HONORS JUNIOR ENGLISH

Grade Level: 11 **Credit: 1**

This course is designed for the Honors student who is not interested in obtaining an IB diploma. Much of the same material is taught in Honors that is taught in the regular course. However, it is assumed that students who take Honors Junior English have advanced English skills, enjoy challenging reading material, and are willing to work hard to develop composition skills. Special emphasis is placed on the American Renaissance period (Thoreau, Emerson, Fuller), and a research project. Students must apply and be accepted. The course is designed in part to prepare students for admission to a university.

IB LANGUAGE A | JUNIOR LEVEL

Grade Level: 11 **Credit: 1**

This course begins the formal Language A study recognized by IB and leads toward IB testing. Students engage in more complex discussions and analysis of major texts from world literature. The goals are to enable students to express ideas with clarity, coherence, proficiency and fluency in both written and oral communication; to demonstrate a sophisticated approach to literary analysis; to demonstrate an appreciation of the similarities and differences between works from different ages and cultures; and demonstrate an ability to structure ideas and arguments in a sustained and logical fashion, using precise and relevant examples. Students must apply and be accepted. This course is designed in part to prepare students for admission to a university.

SENIOR ENGLISH

Grade Level: 12 **Credit: 1**

This course is open to senior students who do not plan to attend college or those who need more basic instruction in English. In this course, students will practice proper writing mechanics and develop English skills necessary in today's competitive job market. Students will also analyze various types of literature for real life application and complete a research paper.

COLLEGE PREP SENIOR ENGLISH

Grade Level: 12 **Credit: 1**

This course is designed for the college-bound student. It includes a chronological survey of English literature, expository writing emphasizing organization and depth of development, mechanics necessary for clear and effective writing, vocabulary study, and a research paper. This course is designed in part to prepare students for admission to a university. This course will be offered for Hutchinson Community College credit.

HONORS COLLEGE PREP ENGLISH A & B

Grade Level: 12 Credit: 1

This course is a chronological survey of English literature. Major American writers and international figures are also studied. Emphasis is placed on written expression and analysis. Students must apply and be accepted. This course is designed in part to prepare students for admission to a university.

HONORS COLLEGE PREP ENGLISH

Grade Level: 12 Credit: ½

This course is a chronological survey of English literature, as well as a preparatory course for a national Advanced Placement exam. Therefore, British authors, major American writers and international figures are studied. Emphasis is placed on discussion, written expression and analysis. Students taking this course will receive additional preparation for college. This course is designed in part to prepare students for admission to a university. This course will be offered for Hutchinson Community College credit.

IB LANGUAGE A1, SENIOR LEVEL

Grade Level: 12 Trimesters: 3 (0Hr.) Credit: 1

This course is the culmination of IB course work in Language A and is available only to students seeking an IB diploma or Language A1 certificate. It is designed to prepare students for the final IB assessments. Students will have an opportunity to apply their analytical writing and thinking skills to additional major literary works as well as practice in class essay writing in preparation for IB testing. Students will also prepare papers to be submitted to IB and prepare formal oral commentaries on selected works as part of their requirements for Language A1. This course is designed in part to prepare students for admission to a university.

HEALTH & PHYSICAL EDUCATION

<u>COURSE TITLE</u>	<u>CREDIT</u>	<u>GRADE LEVEL</u>				<u>PREREQUISITE</u>
		<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	
Physical Dimensions	0.5	@	@	@	@	None
Personal Fitness	0.5	@	@	@	@	None
Aerobics	0.5	@	@	@	@	Physical Dimensions
Strength Training	0.5	@	@	@	@	None
Advanced Strength Training	0.5	@	@	@	@	Recommendation
Net Sports	0.5	@	@	@	@	None
Lifetime Aquatics	0.5	@	@	@	@	Physical Dimensions
Lifeguard Training	0.5	@	@	@	@	15 by end of the tri
Water Safety Instructor	0.5			@	@	16 by end of the tri
Line and Social Dance	0.5		@	@	@	Physical Dimensions
Recreational Activities	0.5		@	@	@	Physical Dimensions
Team Sports	0.5		@	@	@	Physical Dimensions
Drill Team	1.0	@	@	@	@	Application/Audition
Athletic Training	0.5		@	@	@	Physical Dimensions
Junior Leaders	0.5			@		Approval from PE Dept
Senior Leaders	1.0				@	Approval From PE Dept
Health	0.5		@	@	@	None

Students are limited to one credit of physical education each trimester unless approval is obtained from an administrator and department chairperson. Students must complete Physical Dimensions before taking additional classes their sophomore, junior or senior year. Only Drill Team and Strength Training can be repeated for credit. All second trimester P.E. students will square dance as part of their class curriculum.

PHYSICAL DIMENSIONS

Grade Level: 9 **Credit: ½**

This course is required of all freshmen students. It is designed to provide students with the knowledge and skills needed to engage in a physically active, healthy lifestyle throughout life. Three areas of focus in the course are: 1) health-related fitness, 2) lifetime physical activity, and 3) health/wellness concepts and skills. The course is activity-oriented, but also includes adult CPR.

PERSONAL FITNESS

Grade Level: 9-12 **Credit: ½**

This course is especially designed for the student who is not always comfortable in a traditional P.E. class. The course will encourage students to develop an individual optimal level of physical fitness while understanding the importance of weight management and proper nutrition. The student will acquire knowledge of physical fitness concepts, nutritional concepts and understand the significance lifestyle choices play in one's health and fitness. This course will involve both fitness and nutrition labs. Students must have access to a bicycle for three weeks to participate in this class.

AEROBICS

Grade Level: 9-12 **Credit: ½**

This course is designed to increase the student's level of fitness performance in an aerobic workout. Students will be able to calculate target heart rate and work within that rate to improve fitness. They will be expected to sustain an aerobic workout for a minimum of 20 minutes. Floor aerobics, step aerobics, cardio room, speed walking/jogging, resistance bands and hand weights are examples of programs which will be incorporated. Fitness testing will assist in the development of individual goals.

STRENGTH TRAINING

Grade Level: 9-12

Credit: ½

The student will develop the basic principles and techniques of strength training. Emphasis will be placed on developing power, strength, speed, and agility. Running, speed work and agility training are required. An individual computerized strength program will be followed by all participants.

NET SPORTS

Grade Level: 9-12

Credit: ½

Students will be involved in several net sports such as tennis, volleyball, pickle ball, and badminton. Fundamental skills, rules, and strategies of each sport will be taught. Students may be expected to furnish their own tennis racquet.

LIFETIME AQUATICS

Grade Level: 9-12

Credit: ½

This course is designed to teach students to swim, improve basic swimming strokes, and learn other aquatic fitness activities besides swimming to maintain lifelong physical fitness. The student will acquire knowledge of physical fitness concepts and understand the significance lifestyle choices play in one's health and fitness. This class is not for an advanced swimmer who is proficient at 3 or more swimming strokes.

LIFEGUARD TRAINING

Grade Level: 9-12

Credit: 1/2

This course is designed to train a student in safety techniques to be used in aquatic situations. Certification in American Red Cross Lifeguard Training, CPR for the Professional Rescuer, and First Aid will result in successful completion of course objectives. Students must purchase a personal valve mask to be used during CPR (approximately \$12). Additional charges for certification.

LINE AND SOCIAL DANCE

Grade Level: 10-12

Credit: ½

This course is a basic introduction to rhythmic movement as a way to feel good physically, be mentally-stimulated, develop self-esteem and to interact with others in social situations. It is an opportunity to experience lifetime fitness through social and recreational dance. Students will develop skills in working together, develop fitness awareness through the lifetime activity of dance, and develop an appreciation of dance as an art form.

WATER SAFETY INSTRUCTOR TRAINING

Grade Level: 11-12

Credit: 1/2

This course is designed to help the student develop advanced level swimming skills and to become trained to teach swimming and water safety courses. American Red Cross certification will result upon successful completion of this course. Students will complete the American Red Cross Instructor Candidate Training course as well. Along with improving their own strokes and aquatic skills, they will learn how to organize and conduct Red Cross swimming courses such as the Infant and Preschool Aquatics program, the Learn to Swim program (six different levels), safety courses, and how to customize swimming classes for adults, people with disabilities, and integrate fitness components to swimming. Students who wish to certify must purchase instructor books from the American Red Cross.

RECREATIONAL ACTIVITIES

Grade Level: 10-12

Credit: ½

This course will teach the basic knowledge and appreciation of board games, card games, and other recreational activities which will become lifetime activity choices. Activities include golf, bowling, horseshoes, shuffle board, and ping pong.

TEAM SPORTS

Grade Level: 10-12 **Credit: ½**

This is a course that emphasizes advanced team concepts, strategies and play. The course includes flag football, basketball, softball, volleyball, soccer, and team handball. Students will learn the importance of health-related and skill-related fitness concepts. Officiating techniques will also be covered in this course.

DRILL TEAM

Grade Level: 9-12 **Credit: 1**

The Salt Shaker drill team is one of the most colorful drill groups in Kansas. Members are selected in the spring. Applicants must have an AGPA of 2.0 or better. A summer clinic, additional practices outside school time and participation in performances are required of team members. Members must pay for their uniform items.

ATHLETIC TRAINING

Grade Level: 10-12 **Credit: ½**

This course is designed to provide students with the knowledge of injury recognition, evaluation, care and rehabilitation. Students will learn taping techniques, injury prevention and rehab. procedures. In addition, students will be exposed to training room procedures such as record keeping and organization and will have the opportunity to gain hands-on training experience.

JUNIOR LEADERS P. E.

Grade Level: 11 **Credit: ½**

This course is designed to develop leadership skills in relationship to the wellness/fitness field. Students will participate in selected physical activities with special emphasis on classroom procedures, officiating techniques, teaching skills, and equipment maintenance. Opportunities to work with special population groups, Special Olympics, community recreation programs, and school-sponsored health/fitness programs will also be included. CPR and first aid skills will be reviewed. Upon successful completion of this course, a student can apply for the Senior Leader program.

SENIOR LEADERS P. E.

Grade Level: 12 **Credit: 1**

This course involves a select group of students who will be involved in assisting the physical education classes. Other leadership roles include working with the bloodmobile, community service, school service, and senior leader club activities. Students must be actively involved in the senior leader club to stay enrolled in this class.

HEALTH

Grade Level: 10 **Credit: ½**

The main objective of the course is to have the students become more aware of preventive health and safety practices, which include an analysis of health issues impacting youth and adults. Health/Wellness concepts and skills that will be covered include body functions, personal hygiene and safety, mental health, substance abuse, human growth and development, violence prevention, and critical health issues (preventing pregnancy and HIV/STD).

LIFE AND SPORT SKILLS A, B, & C

Grade Level: 9-12 **Credit: 1 ½**

This physical education course is offered for exceptional students at Hutchinson High School. It provides the least restrictive learning environment for handicapped students needing development of psychomotor and social skills.

ADAPTED P.E. A, B, & C

Grade Level: 9-12 **Credit: 1 1/2**

This course is for students with chronic and permanent disabilities. Course content will include training in the acquisition of early locomotive and rudimentary stability movements.

MATH

COURSE TITLE	CREDIT	GRADE LEVEL				PREREQUISITE
		<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	
Technical Math	1.0	@	@			Application only
Algebra A,B,C	1.5	@	@	@	@	None
Algebra D,E,F	1.5		@	@	@	Application only
Applied Math	1.0			@	@	Algebra
Advanced Algebra	1.0	@	@	@	@	Algebra
Geometry	1.0	@	@	@	@	Advanced Algebra
Hnrs Advanced Algebra	1.5	@	@	@	@	Geom/Application
Functions and Statistics	1.0		@	@	@	Adv Algebra and Geometry
Trigonometry	0.5		@	@	@	Adv Algebra and Geometry
Hnrs Trigonometry	1.0		@	@	@	Application (see pre-reqs below)
IB Mathematics	1.0			@	@	Application (see pre-reqs below)
Hnrs College Alg Zero Hr	1.0		@	@	@	F & S, Trig or Hnrs Trig/ Application
Hnrs College Algebra	1.0		@	@	@	F & S, Trig or Hnrs Trig/ Application
Hnrs Calculus	1.5			@	@	Honors College Algebra

Students will need to have three math classes, one of them being Algebra, to graduate from Hutchinson High School. Those students who passed Algebra and Geometry at the middle school will be granted high school credits for those courses. However, for admission to the Board of Regents Universities, math taken at middle school level will not be accepted. Thus students planning to attend a Board of Regents University must earn three (3) math credits while at Hutchinson High School and obtain a 22 Math Score on the ACT. A fourth year of math is required if no 22 Math Score is available. Go to the Kansas Board of Regents Website for the class of 2014-15 and beyond regent's math requirements: [Kansas Board of Regents Qualified Curriculum](#).

In order to pass any mathematics class, Algebra or above*, the student must do passing work and score at least 75% on a skills test that is based on concepts from the preceding mathematics class. Students will be given multiple opportunities to pass the test. EXCEPTION: In Algebra, Geometry and Advanced Algebra, students must pass an exit outcomes test at the 75% level in order to earn course credit. Multiple opportunities will be given. In Honors Classes, a score of 80% on the skills test gives the student an opportunity to earn a grade as high as C. To have a chance at a higher grade, the student must score 90% or above on the skills test. Honors students will also be given multiple opportunities to take the test. *Except for Honors Calculus which does not have a skills test requirement.

Refer to the math progression chart below for the 2013-14 pre-requisites and correct math progression (pg. 17).

Pre-Algebra A,B,C	Algebra C+ or Better	Advanced Algebra	Geometry	Func & Stats///Trig
Pre-Algebra A,B,C	Algebra C-, D	Tech Math	Applied Math **	Advanced Algebra
Pre Algebra D,F	Tech Math	Algebra	Applied Math **	Advanced Algebra
Pre-Algebra D,F	Tech Math	Algebra	Advanced Algebra	Geometry
*****	*****	*****	*****	*****
Algebra (Grade of C- or less)	Algebra	Advanced Algebra	Geometry	Func & Stats ///Trig
Algebra (Grade of C- or less)	Tech Math	Algebra	Applied Math **	Advanced Algebra
Algebra	Advanced Algebra	Geometry	Func & Stats///Trig	College Algebra (Honors App Required)
Algebra	Honors Advanced Algebra (Honors App Required)	Geometry	Honors Trig (Honors App Required)	College Algebra (Honors App Required)
Algebra	Honors Advanced Algebra (Honors App Required)	Geometry	Func & Stats ///Trig	College Algebra (Honors App Required)
*****	*****	*****	*****	*****
Geometry	Honors Advanced Algebra (Honors App Required)	Honors Trig (Honors App Required)	College Algebra (Honors App Required)	Calculus (Honors App Required)
Geometry	Honors Advanced Algebra (Honors App Required)	Func & Stats /// Trig	College Algebra (Honors App Required)	Calculus (Honors App Required)
Geometry	Advanced Algebra	Func & Stats /// Trig	College Algebra (Honors App Required)	Calculus (Honors App Required)
Geometry	Advanced Algebra	Honors Trig (Honors App Required)	College Algebra (Honors App Required)	Calculus (Honors App Required)
*****	*****	*****	*****	*****
IB Bound				
Algebra	Advanced Algebra	Geometry	Math Studies	College Algebra (Honors App Required)
Geometry	Honors Advance Algebra (Honors App Required)	Honors Trig (Honors App Required)	Math SL	Calculus (Honors App Required)

TECHNICAL MATH

Grade Level: 9-10

Credit: 1

This class is for the student who is not quite ready for Algebra I. The Math concepts practice, and skills encountered by the student will be reinforced by Technology through a project based curriculum. Design and Modeling, Magic of Electrons, Science of Technology, and Automation and Robotics are the Technology areas students will investigate during the four six weeks sections of this trimester A and B course. The design process, problem solving, and hands on activities using computers, machines and tools will help students understand how Math and the world around them are related. All of this will be presented by Math and Technology teachers as a project based course. Design and Modeling Students use geometry, problem-solving, teamwork, and project management skills to design and develop product prototypes. The Magic of Electrons Engaged in relevant hands-on projects, students unravel the mysteries of digital circuitry. The Science of Technology Students apply scientific principles and concepts of simple machines and energy to solve real-world problems. Automation and Robotics: Students design and build automated systems that incorporate the principles of electronics, physics, and robotics to gain an enriched understanding of the contemporary mechanical world.

ALGEBRA

Grade Level: 9-12

Credit: 1 ½

This course uses statistics and geometry as settings for work with linear expressions and sentences. Probability provides a context for algebraic fractions, functions, and set ideas. There is much work with graphing. Applications motivate all topics and include exponential growth and compound interest. Students are encouraged to have a simple scientific calculator. This course is designed in part to prepare students for admission to a university.

APPLIED MATHEMATICS

Grade Level: 11-12

Credit: 1

This course is a competency-based course to help high school students use logic related math skills. Students will use video, print, hands-on laboratories, and practical problem-solving activities. The course is oriented toward application and practice of mathematics concepts and skills in practical, real world problems. Students are encouraged to have a simple scientific calculator. This course does not qualify for Kansas Board of Regents required curriculum.

ADVANCED ALGEBRA

Grade Level: 9-12

Credit: 1

This course emphasizes facility with algebraic expressions and forms, especially linear and quadratic forms, powers and roots, and functions based on these concepts. Students study logarithmic, polynomial, and other special functions both for their abstract properties and as tools for modeling real-world situations. Students are encouraged to have a TI-83 graphing calculator, though calculators will be supplied to students not having their own. Outstanding students with approval from the Department Head may take this course simultaneously with Geometry. This will enable them to take Honors College Algebra or Calculus at the high school. This course is designed in part to prepare students for admission to a university.

GEOMETRY

Grade Level: 9-12

Credit: 1

This course presents coordinates, transformations, measurement formulas, and three-dimensional figures in the first semester. Concentrated work with proof writing will be introduced in mid-year and later, a carefully sequenced development of the logical and conceptual precursors to proof. Students are encouraged to have a simple scientific calculator. Students planning to take additional mathematics may want to acquire a TI-83 or TI-84 graphing calculator instead. Students who complete Algebra at the Middle School, with a final grade of B or better should take Advanced Algebra their 9th grade year. This course is designed in part to prepare students for admission to a university.

HONORS ADVANCED ALGEBRA

Grade Level: 9-12 **Credit: 1 ½**

The course is similar to Advanced Algebra except that the pace of study will be much more rapid, and additional topics will be taught. Higher level thinking skills will be used and developed. Students are encouraged to have a TI-84 graphing calculator, though calculators will be supplied to students not having their own. Students who plan to be a part of the International Baccalaureate program and who have not already taken Advanced Algebra **MUST** take this class. This course is designed in part to prepare students for admission to a university.

FUNCTIONS AND STATISTICS

Grade Level: 10-12 **Credit: 1**

This course integrates statistical and algebraic concepts and previews Calculus in work with functions and intuitive notions of limits. Calculators are used in plotting functions, analyzing data, and simulating experiments. Students are encouraged to have a TI-83 graphing calculator for this course, though calculators will be supplied to students not having their own. This course is designed in part to prepare students for admission to a university.

TRIGONOMETRY

Grade Level: 10-12 **Credit: ½**

This is a standard Pre-calculus course in the trigonometry of triangles and circular functions and their applications. Students are encouraged to have a TI-83 graphing calculator for this course, though calculators will be supplied to students not having their own. This course is designed in part to prepare students for admission to a university.

HONORS TRIGONOMETRY

Grade Level: 10-12 **Credit: 1**

This course takes a thorough look at Trigonometry including an extensive look at vectors, complex numbers, and polar equations. It is the natural follow up course for Honors Advanced Algebra. This class is highly recommended if you are considering MYP. It prepares you for the IB Program your Junior and Senior years. The course is designed in part to prepare students for admission to a university.

Honors Trig is not a replacement for Functions and Statistics.

IB MATHEMATICS

Grade Level: 11-12 **Credit: 1**

This is the Mathematics course for the International Baccalaureate Program. Topics to be covered include Algebra, Geometry, Functions, Circular Functions, Trigonometry, Vector Geometry, Statistics & Probability, elementary Calculus and Statistical Methods. There will be an emphasis on Mathematical Communication. Students are encouraged to have a TI-84 calculator, though calculators will be supplied to students who do not have their own. **During Third Trimester, students taking this course will review once per week during zero hour.** This course is designed in part to prepare students for admission to a university.

IB MATH STUDIES

Grade Level: 11-12 **Credit: 1 1/2**

This course is designed to get the successful student ready for college and is specifically geared toward the International Baccalaureate Math Studies Exam. The topics to be covered include statistics, functions, trigonometry, logic and sets, accuracy, vectors, three-dimensional applications, graph theory, matrices, longitude, latitude, business techniques, and sequences. Any junior or senior meeting the prerequisites may take this class, but all students in this class will take the IB Math Studies exam and have to complete a major project. Students are encouraged to have a TI-84 calculator, though calculators will be supplied to students who do not have their own. This course is designed in part to prepare students for admission to a university.

ZERO HOUR HONORS COLLEGE ALGEBRA

Grade Level: 10-12 Credit: 1

As its name implies, this is a college level class and students may earn 3 hours of college credit by paying tuition to Hutchinson Community College. Topics covered are Equations and Inequalities, Functions and their graphs, Polynomial Functions, Rational Functions and Conics, Exponential and Logarithmic Functions, and Systems of Equations and Inequalities. Students who do not have an ACT mathematics score of 21 or better will be required to take the HCC Accuplacer Test prior to the start of the school year and receive at least a 75. Students are encouraged to have a TI-84 calculator though calculators will be supplied to students not having their own. ***The department head may in unusual circumstances permit seniors to take Honors College Algebra without having met the prerequisites, if the senior was an outstanding student in Advanced Algebra. A student interview by the Department Head is required for this to happen. This course is designed in part to prepare students for admission to a university.**

HONORS COLLEGE ALGEBRA

Grade Level: 10-12 Credit: 1

As its name implies, this is a college level class and students may earn 3 hours of college credit by paying tuition to Hutchinson Community College. Topics covered are Equations and Inequalities, Functions and their graphs, Polynomial Functions, Rational Functions and Conics, Exponential and Logarithmic Functions, and Systems of Equations and Inequalities. Students who do not have an ACT mathematics score of 21 or better will be required to take the HCC Accuplacer Test prior to the start of the school year and receive at least a 75. Students are encouraged to have a TI-84 calculator though calculators will be supplied to students not having their own. ***The department head may in unusual circumstances permit seniors to take Honors College Algebra without having met the prerequisites, if the senior was an outstanding student in Advanced Algebra. A student interview by the Department Head is required for this to happen. This course is designed in part to prepare students for admission to a university.**

HONORS CALCULUS

Grade Level: 11-12 Credit: 1 1/2

This course is designed to be equivalent to a first-semester college course of Calculus and Analytical Geometry. A student may earn 5 hours of college credit by paying tuition to Hutchinson Community College and successfully completing the class. The topics taught include limits, development and utilization of the first and second derivative, and a study of anti-differentiation and the definite integral. Students are encouraged to have a TI-84 or above graphing calculator for this course, though calculators will be supplied to students not having their own. *Exceptional Senior math students may, with the permission of the department head, be permitted to take Honors College Algebra and Honors Calculus at the same time. This course is designed in part to prepare students for admission to a university.

MISCELLANEOUS

COURSE TITLE	CREDIT	GRADE LEVEL				PREREQUISITE
		<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	
College Class	0.5			Ⓜ	Ⓜ	Application
JAG-K	0.5		Ⓜ	Ⓜ	Ⓜ	Application/Recommendation
Media Technology	0.5		Ⓜ	Ⓜ	Ⓜ	Application
Independent Study	0.5		Ⓜ	Ⓜ	Ⓜ	Application
Service Learning	0.5			Ⓜ	Ⓜ	Application (Youth Friends)
Office Aide	0.25		Ⓜ	Ⓜ	Ⓜ	Application
Student Aide	0.25		Ⓜ	Ⓜ	Ⓜ	Application
ESL English 2 nd language	0.5	Ⓜ	Ⓜ	Ⓜ	Ⓜ	Instructor Permission

MEDIA TECHNOLOGY

Grade Level: 9-12 **Credit: ½**

Students working in our library will provide service by processing, checking out, and shelving books, magazines and tapes. Students may also work with VCRs camcorders, CD-ROM and the Internet. Our automated circulation/catalog system allows students to work with computers. Students may take this course again with the permission of the librarian.

INDEPENDENT STUDY

Grade Level: 10-12 **Credit: ½**

A student can take a specialized course with a specific teacher as independent study. Before the trimester, the student and the teacher must agree upon specific tasks to be completed and the methods used to determine a grade at the end of the trimester. The time required to complete the independent study will be comparable to the time spent to complete a trimester course.

SERVICE LEARNING

Grade Level: 12 **Credit: ½**

This elective trimester course is an experimental community service curriculum. Similar to an independent study, this community service program is field based and is designed by the student in concert with YouthFriends. Students entering a teaching field may assist an elementary or middle school teacher after the YouthFriends application and required training have been completed. See your counselor for more information.

OFFICE AIDE/STUDENT AIDE

Grade Level: 10-12 **Credit: ¼**

Students will work in one of the offices at Hutchinson High School or assist a classroom teacher. This could include filing, duplicating materials, delivering messages or any other needed tasks. Students must make arrangements with a specific teacher or office and then complete an application. This grade will not be averaged into a student's grade point average.

ENGLISH AS A SECOND LANGUAGE

Grade Level: 9-12 **Credit: ½**

This class is for English Language Learners who require support in order to learn the language and be successful in the core curriculum. There are pre and post tests to determine placement. This class may be taken more than once for credit.

COLLEGE CLASS

Grade Level: 11-12 **Credit: Varies**

Junior or Senior students with a minimum of 15 credits and a 2.5 high school GPA or any students with gifted IEPs that specify college classes may enroll in HCC courses. Assessment testing is also a prerequisite for enrolling: 21 ACT Math, 20 ACT English, 17 ACT Reading, or a 75 COMPASS Reading score are generally required for admission. Students will earn college credit for all successfully completed HCC courses; those wishing to earn high school credit for college courses must enroll from the dual credit list at the back of the directory.

JAG

Grade Level: 9-12 **Credit: ½**

JAG-K (Jobs for America's Graduates - Kansas) is a career exploration and preparation program that provides a hands-on approach in exploring personal strengths and challenges as well as job attainment skills (cover letter, resume, job application, interviewing, etc.) and work place "survival" skills (interpersonal relations, team work, etc.). Students will work to build strengths in academic areas, time management, and communication. The individual and team project work will also help students come to an understanding of personality and temperament and the relationship between personal actions and consequences that follow. Students will make connections to their career interests, abilities, and aptitudes by determining their education and career goals through development of an Individual Career Development Plan. This full-year, credited course involves individual assignments, team activities/projects, academic remediation support, service learning opportunities, guest speakers, field trips, and career exploration through job shadowing and/or an internship. Students will also participate in the JAG-K Career Association in various activities focused on Career and Leadership Development, Service Learning, and Civic/Social Awareness

MUSIC

COURSE TITLE	CREDIT	GRADE LEVEL				PREREQUISITE
		<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	
Orchestra	1.5	@	@	@	@	3 years playing experience/audition
Band	1.5	@	@	@	@	Previous year experience
Color Guard	0.5	@	@	@	@	Instructor Permission
Jazz Band	1.0	@	@	@	@	Audition
Bella Voce	1.5	@	@	@	@	Audition
Concert Choir	1.5	@	@	@	@	Audition
Harmonics	1.5	@	@	@	@	Audition
X-Pressives	1.5	@	@	@	@	Audition

CONCERT/SYMPHONIC ORCHESTRA

Grade Level 9-12 Credit 1 ½

Hutchinson High School's two string performance ensembles, both meet during first hour. First trimester and a portion of second trimester all students meet in the same class working on similar curriculum goals with the exception of a few small groups which may be selected for special performance opportunities based on ability and experience level. During the latter part of second trimester, and the majority of third trimester, advanced students will be selected, by audition, to make up Symphonic Orchestra, while the remaining students remain in concert Orchestra. The orchestra class offers at least four major performances for all students plus additional performing opportunities in festivals, such as solo and ensemble contest, based on ability level.

BAND

Grade Level: 9-12 Credit: 1 ½

This course is open to all freshman, sophomore, junior and senior wind and percussion students. Band is a full year course and may not be taken in individual trimester units. All band members will participate in marching band during first trimester, with rehearsals beginning at 7:30 a.m. and continuing to the end of first period each day. Only students enrolled in a zero hour class will be allowed to arrive late to the 7:30 a.m. rehearsals. After first trimester, band members will be auditioned and placed in either wind ensemble or symphonic band for the remainder of the year. Wind ensemble will meet first period and symphonic band will meet second period.

COLOR GUARD (MARCHING BAND FLAGS)

Grade Level: 9-12 Credit: ½

This class is offered to allow students who do not play a band instrument to join the color guard and participate in marching band during the first trimester. Students who play a band instrument and want to participate in color guard may do so, but must sign up for band, not color guard. Students interested in color guard (the flag line) should contact the band director in March for audition information and enrollment the following year. All guard members are required to attend a camp (usually in late June), pre-school practices with the band in August, and regular band rehearsals from 7:30 a.m. until the end of first period during first trimester. No student who drops band will be allowed to continue with color guard unless an exception is granted by the director. Guard members are a part of the band and are expected to attend all rehearsals and performances.

JAZZ BAND

Grade Level: 9-12 Credit: 1

In order to be eligible for jazz band, a student must be enrolled in band at Hutchinson High School. Only students who play guitar, bass guitar, or piano, and do not also play a regular band instrument may sign up for jazz band without joining band. The jazz band is chosen by audition at beginning of the school year and performs at concerts, clinics, and festivals throughout the year. Jazz band is considered a 2 trimester course, not to be taken in individual trimester units. No student who drops band will be allowed to continue in jazz band unless an exception is granted by the Director. Jazz band will meet 6th period during the 1st and 2nd trimester.

MUSIC THEORY

Grade Level: 10-12 **Credit: ½**

This is a course designed to familiarize the student with some of the basic principles that make music work. Areas taught include fundamentals and notation, ear training, 4-part harmonic writing, music history and style of “classical” composition. Band, Orchestra, and/or Choir are not prerequisites to taking Music Theory. Although a previous musical background is not mandatory, it is highly recommended.

BELLA VOCE

Grade Level: 9-12 **Credit: 1 ½**

This class is open to all young men who wish to participate in vocal music and receive a fine art credit. It will provide a musical opportunity for young men wishing to participate in a choral experience at Hutchinson High School. Students will have the opportunity to sing alone and with others with the specific goals of matching pitch, blending, and the enjoyment of music. Special recital performances will be scheduled for family and friends. Mens Choir is a full year course and may not be taken in individual trimester units without the consent from the instructor.

CONCERT CHOIR

Grade Level: 9-12 **Credit: 1 ½**

This select mixed ensemble is open to choral music students by audition each year. Students are selected on the basis of musical ability and dedication to quality performance. This group will represent Hutchinson High School in community performances and State contest. Musical repertoire will include, but not be limited to, quality contest and choral literature. This group will perform at all concerts and contest venues. Concert Choir is a full year course.

X-PRESSIVES

Grade Level: 10-12 **Credit: 1 ½**

This elite mixed ensemble is open to choral music students by audition each year. Students are selected on the basis of musical ability and dedication to quality performances as well as Regional and State contests. Musical repertoire will include quality jazz, pop, contest, and seasonal literature as well as all Concert Choir material. This group will perform alone as well as with the Concert Choir at all concert and contest venues. X-pressives is a full year course and may not be taken in individual trimester units. Students selected for this ensemble will be expected to wear uniform concert attire. They may take advantage of numerous fundraising opportunities to help defray expenses.

HARMONICS

Grade Level: 10-12 **Credit: 1 ½**

This select girl’s ensemble is open to choral music students by audition each year. This group will represent Hutchinson High School in community and regional performances as well as Regional and State contests. Musical repertoire will include quality jazz, pop, contest, and seasonal literature. This group will perform alone or in mass with the vocal department and will participate at all concert and contest venues. Jr. Misses is a full year course and may not be taken in individual trimester units. Students selected for this ensemble will be expected to wear uniform concert attire. They may take advantage of numerous fundraising opportunities to help defray expenses.

SCIENCE

<u>COURSE TITLE</u>	<u>CREDIT</u>	<u>GRADE LEVEL</u>				<u>PREREQUISITE</u>
		<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	
General Science Physical	0.5	Ⓢ				None
General Science Earth	0.5	Ⓢ				None
Hnrs General Sci Life	0.5	Ⓢ				Application
Hnrs General Sci Earth	0.5	Ⓢ				Application
Biology	1.0		Ⓢ	Ⓢ	Ⓢ	Earth/Physical Science
Honors Biology	1.0		Ⓢ	Ⓢ	Ⓢ	Honors Science Application
Environmental Science	0.5		Ⓢ	Ⓢ	Ⓢ	Biology
Botany	0.5			Ⓢ	Ⓢ	Biology
IB Biology (SL/HL) I	1.0			Ⓢ	Ⓢ	Application and Honors Biology
IB Biology HL II	1.0				Ⓢ	IB Biology I
Human Anatomy & Phys	1.0			Ⓢ	Ⓢ	C or better in Biology
Chemistry	1.0			Ⓢ	Ⓢ	C or better in Algebra
Honors Chemistry	1.0		Ⓢ	Ⓢ	Ⓢ	B or better in Algebra
IB Chemistry SL	1.5			Ⓢ	Ⓢ	Honors Chemistry and Application
Physics	1.0			Ⓢ	Ⓢ	C or better in Geometry
IB Physics SL	1.0					Application

FRESHMAN GENERAL SCIENCE-PHYSICAL

Grade Level: 9 **Credit: ½**

Non-Honors freshman students are required to take one trimester of Physical Science. This is a lab course that provides a background for further study in the science department. The course is a prerequisite for all courses in the science department. This course is designed to prepare students for both Chemistry and Physics. The topics to be covered will include: scientific method, energy and matter, structures of atoms, chemical reactions, force and motion, and thermodynamics.

FRESHMAN GENERAL SCIENCE-EARTH

Grade Level: 9 **Credit: ½**

Freshman students are required to take one semester of Earth Science. This lab course provides a background for further study in the science department. The course is a prerequisite for all other courses in the department.

HONORS FRESHMAN GENERAL SCIENCE-EARTH

Grade Level: 9 **Credit: ½**

This lab course provides a background for further study in the science department. The pace of study will be more rapid and additional topics covered. This class is highly recommended if you are considering MYP. It prepares you for the IB program your Junior and Senior years.

HONORS FRESHMAN GENERAL LIFE SCIENCE

Grade Level: 9 **Credit: ½**

This course is an Honors class that will prepare the students for Honors Biology and for I.B. Biology. It is a laboratory course and will cover General Biology topics. This class is highly recommended if you are considering MYP. It prepares you for the IB program your Junior and Senior years.

BIOLOGY

Grade Level: 10-12 **Credit: 1**

This is a survey course of Biology with an emphasis on ecology, molecular biology, cell biology, and genetics. This is a lab course with half the time spent on self-directed activities. Individual lab reports are required. The class content is 60% text and 40% enrichment, so notebooks are a must. This course is designed in part to prepare students for admission to a university.

HONORS BIOLOGY

Grade Level: 10-12 **Credit: 1**

This is a lab course which will involve students in appreciating and understanding the beauty, diversity and complexity of life. Students will study the fundamental concepts of biology with an emphasis on the scientific method, taxonomy, designing experiments and genetics. Students will also study and discuss the impact of biology on the critical issues that affect them and society. They will also explore a wide variety of career opportunities in biology and related fields. Students will be asked to work both independently and cooperatively on various projects and simulations. Writing and discussion will be an important part of assessing student performance. This class is highly recommended if you are considering MYP. It prepares you for the IB program your Junior and Senior years. This course is designed in part to prepare students for admission to a university.

IB BIOLOGY (SL/HL) I

IB BIOLOGY (HL) II

Grade Level: 11-12 **Credit: 2**

This course is designed as a comprehensive two-year program and is to be taken after successful completion of Honors Biology. This course is designed to deepen a student's understanding of more complex biological topics, primarily through discussions and observation and analysis of laboratory or field investigations. The curriculum is an intensive examination of the core program required of all IB students around the world with an emphasis on cells, biochemistry, genetics, ecology, human health and physiology, and evolution. At least 25% of class time will be devoted to lab or field investigations. Participation in a group research project is required. This course is designed in part to prepare students for admission to a university.

HUMAN ANATOMY AND PHYSIOLOGY A & B

Grade Level: 11-12 **Credit: 1**

This is a two trimester lab course that will include extensive use of the microscope. The first trimester will include sections on the chemical basis of life, cells, cellular metabolism, tissues, skin and the integumentary system, and the skeletal system. The second trimester will include the muscular system, nervous system, endocrine system, digestive system, respiratory system, circulatory system, urinary system, and reproductive system. The labs will include slides, human physiology experiments, and the dissection of the mink. This course is designed in part to prepare students for admission to a university.

BOTANY

Grade Level: 11-12 **Credit: ½**

This class will focus on the biology of plants and their role in our state and society. Specifically, the class is designed to integrate cellular biology (take sophomore year) into the broader curriculum of agriculture and horticulture. Students will perform a variety of classroom and lab-based activities. Professionals from the industry will periodically be invited as guest speakers to the class. Field trips will be offered when practical. Some relevant topics include: chemistry of plant compounds; anatomy of flowering plants; plant genetics and hybrids; classification of plants; origins of agriculture; cultivation of select fruits and vegetables; medicinal uses of plants; cultivation of Kansas crops; agriculture's impact on the Kansas economy.

CHEMISTRY

Grade Level: 11-12 **Credit: 1**

This course seeks to develop a working knowledge of the basic concepts of chemistry and quantitative chemical relationships. Generalized topics to be studied will include: laboratory safety, lab techniques used in industry, atomic structure, periodicity, chemical bonding, properties of matter, oxidation-reduction and acid-base chemistry. This course is designed in part to prepare students for admission to a university.

HONORS CHEMISTRY

Grade Level: 11-12, 10 (Pre-IB)

Credit: 1

This course is designed for exceptionally qualified and motivated students. It is intended to provide a thorough treatment of the concepts of inorganic chemistry. In addition to the topics of atomic structure, bonding, properties of matter, acids and bases, redox and chemical equilibria, the course will also emphasize thermodynamics, chemical kinetics, and coordination chemistry. There is a strong emphasis on gaining expertise in laboratory procedures and analysis of data. Advanced Algebra completion or concurrent enrollment is recommended. This course is designed in part to prepare students for admission to a university.

IB CHEMISTRY (SL)

Grade Level: 11-12

Credit: 1 1/2

This course is designed to be the equivalent of a chemistry course usually taken during the first year of college. The class will provide a body of knowledge, methods and techniques, which characterize science and enable students to use their knowledge in problem solving settings. The course will focus on experimental and investigative scientific skills and an awareness of the value of collaboration and communication during scientific activities. At least 40% of the class time will be dedicated to laboratory investigations. This course is designed in part to prepare students for admission to a university.

ENVIRONMENTAL SCIENCE

Grade Level: 10-12

Credit: ½

This one trimester course is an interdisciplinary study that seeks to describe problems caused by our misuse of the natural world. In addition, it seeks some of the remedies for these problems. During the course of the semester we will cover topics involving environmental ethics, interactions between the environment and specific organisms, population growth, as well as topics involving soil, water, air, and environmental policy. This class will be both lab and discussion based.

PHYSICS

Grade Level: 11-12

Credit: 1

This is a 2 trimester course that studies physical properties such as motion, forces, energy, matter, heat, sound, light electricity, and magnetism. This course involves conceptual principles mixed with the application of algebraic fundamentals in the form of equations. Some history and nature of science is also covered. Trigonometry is recommended but not required. Students should note that this physics course is not a college level course. A scientific calculator is needed for this class. This course is designed in part to prepare students for admission to a university.

IB PHYSICS SL

Grade Level: 11-12

Credit: 1

The standard level physics course is a study of classical and modern Physics. The core syllabus describes a non-calculus based study of the fundamental topics of Physics. The emphasis is on personal experience in the scientific method. While focusing on the development of both scientific knowledge and scientific activity, students of SL Physics will make connections within the three domains of physics: laws of physics, experimental skills, and the social and historical aspects. This course is designed in part to prepare students for admission to a university.

SOCIAL STUDIES

COURSE TITLE	CREDIT	GRADE LEVEL				PREREQUISITE
		<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	
World History	1.0	Ⓢ	Ⓢ			None
0-hour Hnr World History	1.5	Ⓢ				Application
Honors World History	1.0	Ⓢ				Application
Civics/Economics	0.5		Ⓢ			None
US History	1.0			Ⓢ		None
Honors US History	1.0			Ⓢ		Application
IB Hist of Americas HL I	1.0			Ⓢ		Honors World History
IB His of Americas HL II	1.5				Ⓢ	IB History of Americas HL I
American Govt	0.5				Ⓢ	None
Hrs American Govt	0.5				Ⓢ	Application

WORLD HISTORY A/B

Grade Level: 9-10 Credit: 1

This required freshman or sophomore course functions primarily as an introduction to World History. World History A topics include: the Renaissance and Reformation, The Enlightenment, European Exploration, the Isolation of Asia, Imperialism, German Unification and the Meiji Restoration. World History B topics include: the Russian Revolution and World War I, Anti-Colonial Movements, Totalitarianism, and the Rise of the Middle East. This course is designed in part to prepare students for admission to a college or university.

ZERO HOUR HONORS WORLD HISTORY

Grade Level: 9 Credit: 1 ½

Zero Honors World History is a class designed to challenge students to think about history from both western and non-western perspectives. In Zero Hour Honors World History A students begin by learning about the major religions, and the Middle Ages through the French Revolution. In Zero Hour Honors World History B students will cover the Meiji Restoration through WWI. In the C section students will study the Interwar years through the 1960's. This World History course focuses on improving student reading, writing, and research skills. By learning how to examine and analyze primary and secondary sources, students will acquire critical thinking skills and the ability to make informed decisions about past and future events. This class is highly recommended if you are considering MYP. It prepares you for the IB program your Junior and Senior years. The course is designed in part to prepare students for admission to a college or university. Taking the course during zero hour may help alleviate scheduling difficulties.

HONORS WORLD HISTORY

Grade Level: 9 Credit: 1

Honors World History is a class designed to challenge students to think about history from both western and non-western perspectives. In Honors World History A, students begin by learning about the Middle Ages, the Renaissance and Reformation, The Enlightenment, European Exploration, the Isolation of Asia, Imperialism, German Unification and the Meiji Restoration. In Honors World History B, topics include: the Russian Revolution and World War I, Anti-Colonial Movements, Totalitarianism, and the Rise of the Middle East. This World History course focuses on improving student reading, writing, and research skills. By learning how to examine and analyze primary and secondary sources, students will acquire critical thinking skills and the ability to make informed decisions about past and future events. Students who plan to be part of the I.B. program need to take this class or Zero Hour Honors World History. This class is highly recommended if you are considering MYP. It prepares you for the IB program your Junior and Senior years. The course is designed in part to prepare students for admission to a college or university.

IB HISTORY OF THE AMERICAS (HL) I

IB HISTORY OF THE AMERICAS (HL) II

Grade Level: 11 & 12 **Credit: 2 ½**

This two year, five trimester course of study is offered at the higher level. During the eleventh grade year, History of the Americas will provide the student with a survey of United States, Latin American, and Canadian history focusing on the time period 1870 through roughly 1936. In addition a special emphasis will be placed on the rise of dictators, World War I, the Mexican and Russian Revolutions, and International Politics between the World Wars (1919-1936). In the twelfth grade year students will get an overview of United States, Latin America, and Canadian history focusing on the 1930's through the presidency of Reagan. Focused attention will be given to the study the Great Depression, single party states, World War II, the Cold War, Vietnam, and the policies of the Modern Presidents. Students will also complete a historical investigation on a topic involving either the Truman or Eisenhower presidency. Both years are required to be prepared to sit for the Higher Level exam taken in may of the senior year. This course is designed to prepare students for admission to a university.

CIVICS/ECONOMICS

Grade Level: 10 **Credit: ½**

This course deals with the basic concepts of governmental systems of Kansas and the USA with an emphasis on the U.S. Constitution, the necessity for the rule of law, the civic values of the American people and the rights, privileges and responsibilities of becoming active participants in our representative democracy. This course will establish a framework of basic economic theory which can be extended and applied to future learning. Topics will include free market economy, consumerism, and the role of American government within the economic system It also explores the major economic concepts, issues and systems applying decision making skills as a consumer, producer, saver, investor and citizen.

U.S. HISTORY

Grade Level: 11 **Credit: 1**

This required junior level course is designed to give a basic understanding of the chronology of United States History. US History A will cover Imperialism and the Spanish-American War through World War II. US History B will cover the time span of the Cold War through the presidencies of Ford and Carter. This course is designed to prepare students for admission to a university.

HONORS U.S. HISTORY

Grade Level: 11 **Credit: 1**

This course is designed for students of above-average ability and accomplishment and provides an intensive introduction to historical reading, research, writing and analysis. Themes included in the first section of the course include the Modernization of America (1865-1900), United States Foreign Policy from 1865-1920, the Coming to Age of America (1900-1929) and the Great Depression and the New Deal. The second trimester covers the following topics: World War II and the Origins of the Cold War, The Eisenhower Years, The Kennedy and Johnson Years, and the End of the Cold War and Beyond. This course is designed to prepare students for admission to a university.

AMERICAN GOVERNMENT

Grade Level: 12 **Credit: ½**

Required for all seniors, this course includes the development, organization, and operation of the national government. Emphasis is placed on the importance of individual responsibility and participation in the democratic political processes. This course will also cover Juvenile Law, Torts and Criminal Law. The US Constitution and the branches of government are covered in detail. This course is designed in part to prepare students for admission to a university.

HONORS AMERICAN GOVERNMENT

Grade Level: 12 **Credit: ½**

This course acquaints the student with the political aspects of society through emphasis on the presidency as an institution, its evolution, congressional relationships, and executive organization; the concept of representation and political behavior of participants in the legislative process; the foundation of the American political system; and the role of the citizen in American democracy. This course will encourage the student to develop a critical and imaginative spirit with which to look at public issues for the purpose of extending, deepening, and intensifying understanding of the American political system. This course is designed in part to prepare students for admission to a university.

WORLD LANGUAGES

<u>COURSE TITLE</u>	<u>CREDIT</u>	<u>GRADE LEVEL</u>				<u>PREREQUISITE</u>
		<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	
Mandarin Chinese I	1.0	Ⓢ	Ⓢ	Ⓢ	Ⓢ	None
Mandarin Chinese II	1.0	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Chinese I
Spanish I	1.0	Ⓢ	Ⓢ	Ⓢ	Ⓢ	C or better in English
Spanish II	1.0		Ⓢ	Ⓢ	Ⓢ	Spanish I
Spanish III	1.5			Ⓢ	Ⓢ	Spanish II
Spanish IV (IB)	1.5				Ⓢ	3 semesters of Spanish III
American Sign Language I	1.0	Ⓢ	Ⓢ	Ⓢ	Ⓢ	None
American Sign Language II	1.0		Ⓢ	Ⓢ	Ⓢ	American Sign Language I
American Sign Language III	1.5			Ⓢ	Ⓢ	American Sign Language II
American Sign Language IV	1.5				Ⓢ	American Sign Language III

CHINESE I & II

Grade Level: 9-12 **Credit: 1**

These courses are designed for high school students with no background in Chinese language. The teachers in these courses are Language Majors from Universities on Mainland China facilitated by a local classroom instructor. The goals of this course are to enable students to achieve a basic to mid-level mastery of the language basics. The course is taught using the communicative approach with additional focus on form (both oral and written) where appropriate. Classroom instruction is conducted in the target language (Mandarin Chinese). The curriculum materials include teacher-developed materials (including appropriately adapted authentic materials), online materials, and textbook. The class is held in a modern long distance learning lab environment where classrooms are shared between multiple learning sites. This innovative language learning class is made possible via the **Confucius** Institute at the University of Kansas, Edwards Campus. Instruction will primarily focus on helping students learn to use Chinese language to communicate meaningfully, with appropriate instruction on form as needed. To avoid confusion over the phonetic values of the Latin alphabet, the pinyin system of writing Chinese with the Latin alphabet will not be introduced until after the first few weeks of class, during which the students will gain a strong understanding of the Chinese sound system. To give students as much opportunity to practice listening and speaking Chinese, classroom instruction will be primarily in Chinese.

SPANISH I

Grade Level: 9-12 **Credit: 1**

An introduction to practical Spanish with an emphasis placed on the four language skills: listening, speaking, reading and writing.

SPANISH II

Grade Level: 10-12 **Credit: 1**

The basic communication skills of listening and speaking are continued; however, reading and writing skills are treated in greater depth than in Spanish I. Exercises and activities are designed to help students move toward oral and written proficiency.

SPANISH III

SPANISH IV

Grade Level: 11-12 **Credit: 1 ½**

These student-centered instructional courses will provide a balance among all four language skills while incorporating an integrated approach to language learning and an awareness of Spanish culture.

AMERICAN SIGN LANGUAGE I

Grade Level: 9-12 Credit: 1

This is an introductory course to prepare students for communication with Deaf and Hard-of-Hearing individuals. Emphasis will be on building a basic sign vocabulary, background information related to Deaf culture, non-verbal activities, and expressive and receptive signing activities. In IB, projects to build fluency and expressive skills will be assigned as well as the introduction of more sign vocabulary.

AMERICAN SIGN LANGUAGE II

Grade Level: 10-12 Credit: 1

The fall semester of ASL IIA will focus on conversational signing and beginning interpreting skills. Students will increase their vocabulary of signs to approximately 1100-1500 words. The spring semester of ASL IIB will require students to complete 12 projects to further develop their interpreting skills and increase their sign vocabulary to around 2000 words. Both classes will provide opportunities for students to interact with Deaf and Hard-of-Hearing individuals in our community.

AMERICAN SIGN LANGUAGE III

AMERICAN SIGN LANGUAGE IV

Grade Level: 11-12 Credit: 1 ½

These advanced sign language classes will allow for individualized work in areas that improve interpreting and communication skills. Projects, used to increase these skills and vocabulary, include signing to songs, short plays, dialogues, and current events. ASL grammar and syntax, the use of non-manual markers, and classifiers will be introduced.

INTERNATIONAL BACCALAUREATE (IB)

IB VISUAL ART SL Pre-req: 2D Art/Draw & Paint

Grade Level: 11-12 **Credit: 1**

This class is a program that requires students to accomplish the same criteria listed in the (HL) description. Students will have one year to complete a portfolio of 8-12 works and investigative workbooks.

IB VISUAL ART HL Pre-req: 2D Art/Draw & Paint

Grade Level: 11-12 **Credit: 1**

This course is a continual process of exploration and experimentation into your own creative artistic potential. Students will use research, critical thinking, technical skills, and analytical thinking to study art. This is a 2 year program (1 credit per yr.) that requires students to prepare a portfolio of 10 to 15 finished art works that demonstrate creative thinking, technical skills, understanding of media, persistence in research, excellent use of elements and principles of design and the ability to evaluate one's own work. This portfolio is formally exhibited. Students also prepare research workbooks reflecting the processes and growth, as well as the design, creation, and explanation of finished studio works. Students will also meet with a visiting examiner appointed by IB to evaluate their accomplishments, intentions, and understanding of the topics covered.

IB INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY

Pre-req: One computer credit **Grade Level: 11-12**

This course is available for International Baccalaureate (IB) credit or elective credit. Students will solve a world problem using technology and examine the impact of information technology (IT) on individuals and society. Students will explore the use of information systems, the consequences of IT on society, the ethical considerations of IT, and new advances in IT. Throughout the course students must analyze and evaluate the social impact of IT on individuals and society and consider the ethical issues raised by this impact. Social impact and ethical considerations need to be analyzed from local, national and global perspectives. .

THEORY OF KNOWLEDGE (TOK)

Grade Level: 11-12 **Credit: 1**

This is an excellent course for any college bound junior or senior who wishes to expand awareness of how arts, languages, sciences and social studies interrelate to affect modern thought. Course work encourages students to build critical thinking skills, which will enable them to act responsibly as global citizens in an increasingly interconnected world. Interdisciplinary projects that promote systemic thinking, logic and reasoning will be emphasized. Field trips, guest speakers and expert panels will play major roles in the course. This course satisfies the speech requirement for graduation. Both parts are required for IB diploma candidates.

IB THEATRE ARTS SL

Grade Level: 11-12 **Credit: 1**

This course is designed to deepen the student's awareness as to the nature of theatre and its role in society. During this course, students will engage in a variety of activities that include in-depth discussions of world literature, critical analysis of the literature and characters, role-playing, acting, directing, playwriting, technical work and journaling. Each student enrolled will be required to take the class for either an IB diploma or an IB certificate.

IB LANGUAGE A1 JUNIOR LEVEL

Grade Level: 11 **Credit: 1**

This course begins the formal Language A study recognized by IB and leads toward IB testing. Students engage in more complex discussions and analysis of major texts from world literature. The goals are to enable students to express ideas with clarity, coherence, proficiency and fluency in both written and oral communication; to demonstrate a sophisticated approach to literary analysis; to demonstrate an appreciation of the similarities and differences between works from different ages and cultures; and demonstrate an ability to structure ideas and arguments in a sustained and logical fashion, using precise and relevant examples. Students must apply and be accepted. This course is designed in part to prepare students for admission to a university.

IB LANGUAGE A1, SENIOR LEVEL

Grade Level: 12 **Credit: 1**

This course is the culmination of IB course work in Language A and is available only to students seeking an IB diploma or Language A1 certificate. It is designed to prepare students for the final IB assessments. Students will have an opportunity to apply their analytical writing and thinking skills to additional major literary works as well as practice in class essay writing in preparation for IB testing. Students will also prepare papers to be submitted to IB and prepare formal oral commentaries on selected works as part of their requirements for Language A1. This course is designed in part to prepare students for admission to a university.

IB MATHEMATICS

Grade Level: 11-12 **Credit: 1**

This is the Mathematics course for the International Baccalaureate Program. Topics to be covered include Algebra, Geometry, Functions, Circular Functions, Trigonometry, Vector Geometry, Statistics & Probability, elementary Calculus and Statistical Methods. There will be an emphasis on Mathematical Communication. Students are encouraged to have a TI-84 calculator, though calculators will be supplied to students who do not have their own. **During Third Trimester, students taking this course will review once per week during zero hour.** This course is designed in part to prepare students for admission to a university.

IB MATH STUDIES

Grade Level: 11-12 **Credit: 1 1/2**

This course is designed to get the successful student ready for college and is specifically geared toward the International Baccalaureate Math Studies Exam. The topics to be covered include statistics, functions, trigonometry, logic and sets, accuracy, vectors, three-dimensional applications, graph theory, matrices, longitude, latitude, business techniques, and sequences. Any junior or senior meeting the prerequisites may take this class, but all students in this class will take the IB Math Studies exam and have to complete a major project. Students are encouraged to have a TI-84 calculator, though calculators will be supplied to students who do not have their own. This course is designed in part to prepare students for admission to a university.

IB BIOLOGY (SL/HL) I

IB BIOLOGY (HL) II

Grade Level: 11-12 **Credit: 2**

This course is designed as a comprehensive two-year program and is to be taken after successful completion of Honors Biology. This course is designed to deepen a student's understanding of more complex biological topics, primarily through discussions and observation and analysis of laboratory or field investigations. The curriculum is an intensive examination of the core program required of all IB students around the world with an emphasis on cells, biochemistry, genetics, ecology, human health and physiology, and evolution. At least 25% of class time will be devoted to lab or field investigations. Participation in a group research project is required. This course is designed in part to prepare students for admission to a university.

IB CHEMISTRY (SL)

Grade Level: 11-12 **Credit: 1 1/2**

This course is designed to be the equivalent of a chemistry course usually taken during the first year of college. The class will provide a body of knowledge, methods and techniques, which characterize science and enable students to use their knowledge in problem solving settings. The course will focus on experimental and investigative scientific skills and an awareness of the value of collaboration and communication during scientific activities. At least 40% of the class time will be dedicated to laboratory investigations. This course is designed in part to prepare students for admission to a university.

IB PHYSICS SL

Grade Level: 11-12 **Credit: 1** **pre-req: Adv Alg**

The standard level physics course is a study of classical and modern Physics. The core syllabus describes a non-calculus based study of the fundamental topics of Physics. The emphasis is on personal experience in the scientific method. While focusing on the development of both scientific knowledge and scientific activity, students of SL Physics will make connections within the three domains of physics: laws of physics, experimental skills, and the social and historical aspects. This course is designed in part to prepare students for admission to a university.

IB HISTORY OF THE AMERICAS (HL) I

IB HISTORY OF THE AMERICAS (HL) II

Grade Level: 11 & 12 Credit: 2 1/2

This two year, five trimester course of study is offered at the higher level. During the eleventh grade year, History of the Americas will provide the student with a survey of United States, Latin American, and Canadian history focusing on the time period 1870 through roughly 1936. In addition a special emphasis will be placed on the rise of dictators, World War I, the Mexican and Russian Revolutions, and International Politics between the World Wars (1919-1936). In the twelfth grade year students will get an overview of United States, Latin America, and Canadian history focusing on the 1930's through the presidency of Reagan. Focused attention will be given to the study the Great Depression, single party states, World War II, the Cold War, Vietnam, and the policies of the Modern Presidents. Students will also complete a historical investigation on a topic involving either the Truman or Eisenhower presidency. Both years are required to be prepared to sit for the Higher Level exam taken in May of the senior year. This course is designed to prepare students for admission to a university.

APPROACHES TO LEARNING

Grade Level: 11-12 Credit: 1

This is an excellent course for any college bound junior or senior who wishes to expand awareness of how arts, languages, sciences and social studies interrelate to affect modern thought. Course work encourages students to build critical thinking skills, which will enable them to act responsibly as global citizens in an increasingly interconnected world. Interdisciplinary projects that promote systemic thinking, logic and reasoning will be emphasized. Field trips, guest speakers and expert panels will play major roles in the course. This course satisfies the speech requirement for graduation. Both parts are required for IB diploma candidates. This course is required for IBCC Certification.

ARTS, A/V TECHNOLOGY, AND COMMUNICATIONS

<u>COURSE TITLE</u>	<u>CREDIT</u>	<u>GRADE LEVEL</u>				<u>PREREQUISITE</u>
		<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	
21 st Century Journalism	0.5	Ⓢ	Ⓢ	Ⓢ	Ⓢ	None
Digital Photography	0.5	Ⓢ	Ⓢ	Ⓢ	Ⓢ	None
Digital Media Design & Production (Yearbook)	.5 – 1.5		Ⓢ	Ⓢ	Ⓢ	21 st Century Journalism/ Digital Photography
Media & Public Relations (Newspaper)	.5 - 1.5		Ⓢ	Ⓢ	Ⓢ	21 st Century Journalism/ Digital Photography
Graphic Design Fundamentals	.5	Ⓢ	Ⓢ	Ⓢ	Ⓢ	None
Audio/Video Production	0.5		Ⓢ	Ⓢ	Ⓢ	None
Broadcasting	.5 - 1.5		Ⓢ	Ⓢ	Ⓢ	Prefer Audio/Video Production
Advanced Broadcasting	.5 - 1.5			Ⓢ	Ⓢ	Broadcasting

21st CENTURY JOURNALISM

Grade Level: 9-12

Credit: ½

This one trimester course is a prerequisite for yearbook and newspaper production classes. Students will learn about the various writing styles needed for newspaper and yearbook journalism. Developing a solid journalistic writing style will be emphasized, as will interviewing strategies and layout and design. Students will also have the opportunity to explore desktop publishing and become familiar with a variety of programs. Students with strong English and writing skills will enjoy this course.

DIGITAL PHOTOGRAPHY

Grade Level: 9-12

Credit: ½

This trimester course will help students learn the parts and operations of a camera and how to take good pictures. Students will learn lighting techniques, and shoot still life, portraits, landscapes and pictures that tell stories. They will also be exposed to Adobe Photoshop and learn source basics of the program. Students must receive at least a B in this course to be accepted into any advanced journalism classes. (Newspaper and Yearbook)

DIGITAL MEDIA DESIGN & PRODUCTION (YEARBOOK) **Grade Level: 10-12** **Credit: ½ - 1.5**

Students are responsible for all aspects of producing the school yearbook, including theme development, page design, story writing, photography and advertising. Students in this advanced class will gain a working knowledge of several computer programs, including Adobe PageMaker, Photoshop, and several aspects of Microsoft Word and Appleworks, word processing, spreadsheet and presentation software. Understanding the hardware and operating systems will also be covered. Students will also have knowledge of internet use and will have a social and ethical understanding of the issues that surround its usage. Students wishing to take this class should be available for out-of-class work time as needed. This course may be taken each year for full credit. This course is designed in part to prepare students for admission to a university.

GRAPHIC DESIGN FUNDAMENTALS

Grade Level: 9-12

Credit: ½

Graphic Design Fundamentals provides a basic understanding of the graphic design process. Topics include analyzing the design elements and principles, exploring industry tools, software and equipment and learning composition techniques to develop a quality product.

MEDIA & PUBLIC RELATIONS (NEWSPAPER)

Grade Level: 10-12 **Credit: ½ - 1.5**

Visit the *Newshawk* at <http://hutchctea.com/newshawk/>

Students are responsible for all aspects of producing the school newspaper, including story development, reporting, story writing, page design, photography and advertising. Students in this advanced class will gain a working knowledge of several computer programs, including Adobe PageMaker, Photoshop, and several aspects of Microsoft Word and Appleworks, word processing, spreadsheet and presentation software. Understanding the hardware and operating systems will also be covered. Students will also have knowledge of internet use and will have a social and ethical understanding of the issues that surround its usage. Students wishing to take this class should be available for out-of-class work time as needed. This course may be taken each year for full credit. This course is designed in part to prepare students for admission to a university.

AUDIO/VIDEO PRODUCTION

Grade Level: 9-12 **Credit: ½**

This course introduces the basics of video production utilizing a personal camcorder and video editing equipment. Students study video technologies, basic equipment operation, video composition, basic lighting and audio production planning, and visual storytelling. Students work in groups to create video projects utilizing post-production editing.

BROADCASTING

Grade Level: 10-12 **Credit: ½ - 1.5**



















Students enrolled in this course will become a part of the Salthawk TV21 production staff. Students will be responsible for producing morning announcements, commercials, and other video productions. Students will develop advanced skills in all aspects of television production. These student-produced programs will serve school and community audiences. Students **MUST** be available for out-of-class work time as needed. Application must be made to be accepted in to the class; forms are available from the Advanced Broadcasting teacher or Counseling Center. This course is designed in part to prepare students for admission to a university.

ADVANCED BROADCASTING

Grade Level: 10-12 **Credit: ½ - 1.5**

This class meets for a period of three hours per day. Students will be a part of the Salthawk TV20 Channel and HSTV. Students will have an extended Laboratory time in the broadcasting classroom and studio. The students will accomplish Major Projects for airing to the High School and community businesses. They will also be meeting stringent standards from Cable News Network (CNN). Students will be required to work out of class on assignments when necessary. Apple Final Cut Pro Professional Certification is an option with this class. This video editing professional certification is in high demand and gives students excellent broadcast employment opportunities. Students must make application for the class. Applications are available in the Career and Technical Education Office and Counseling Center. This course is designed in part to prepare students for admission to a university.

ARCHITECTURE AND CONSTRUCTION

COURSE TITLE	CREDIT	CONSTRUCTION PATHWAY	DESIGN & PRE-CONSTRUCTION PATHWAY
Introduction to Industrial Technology Grade Level: 9-12 Prerequisite: None	.5		
Drafting Grade Level: 10-12 Prerequisite: None	.5		
Skilled Mechanical Crafts Grade Level: 9-12 Prerequisite: None	.5		
Machine Wood Grade Level: 10-12 Prerequisite: None	1.0		
Advanced Wood Grade Level: 11-12 Prerequisite: Machine Wood	1.0		
Commercial Construction Grade Level: 10-12 Prerequisite: None	1.0		
Advanced Commercial Construction Grade Level: 10-12 Prerequisite: Commercial Construction	1.0		
Building Trades I Grade Level: 11-12 Prerequisite: Application	3.0		
Building Trades II Grade Level: 12 Prerequisite: Application	3.0		
Computer Aided Drafting (CAD) Grade Level: 10-12 Prerequisite: None	.50		
Advanced CAD Grade Level: 10-12 Prerequisite: CAD	.50		
Architectural Drafting Grade Level: 11-12 Prerequisite: Drafting	1.0		
Interior Design Grade Level: 10-12 Prerequisite: None	.50		

INTRODUCTION TO INDUSTRIAL TECHNOLOGY

Grade Level: 9-12 Credit: .5

This course provides the student an opportunity to explore and experience various areas within the industrial technology area. This survey course is specifically designed to assist students in identifying their interests, and also to provide challenging, fun, and varied activities. Topics covered will include basic skills necessary to all occupations in the construction, manufacturing and transportation areas.

DRAFTING

Grade Level: 10-12 Credit: .5

This course consists of instruction in the different types of drawing procedures and related information applied in the various fields of drafting. Drawings will be done using conventional methods and computer aided drafting (CAD) techniques.

SKILLED MECHANICAL CRAFTS

Grade Level: 9-12 Credit: .5

An introduction to the craft skills required in the commercial and residential construction trades. The coursework focuses on topics such as Safety, Construction Math, Introduction to Hand and Power Tools, Material Handling, Rigging, Construction Drawings, Communication, and Employability Skills.

MACHINE WOOD

Grade Level: 10-12 Credit: 1

Students will have the opportunity to develop basic skills in the use of power machines, including CNC work. They are required to build a project that utilizes their acquired skills. All aspects of woodworking will be covered, from design to a completed finished project. Students are expected to pay for their projects.

ADVANCED WOOD

Grade Level: 10-12 Credit: 1

This class is project-oriented. It is open to sophomores, juniors, and seniors who have completed Machine Woodworking and want to further advance their skills in woodworking. Students are free to design and construct any project they desire as long as it is compatible with their ability level. This class can be taken more than once. Students are expected to pay for their projects.

COMMERCIAL CONSTRUCTION

Grade Level: 10-12 Credit: 1

This class offers a broad collection of skills and knowledge that would be beneficial to students interested in any career related to construction. It is also an opportunity to complete some of the requirements for NCCER(National Center for Construction Education and Research) certification. Some of the topics covered include construction safety, tool usage, blueprint reading, concrete, masonry, carpentry, steel construction, light powered equipment and much more. This class is sponsored in part by the Associated General Contractors of America.

ADV COMMERCIAL CONSTRUCTION

Grade level: 10-12 Credit: 1

This class is a continuation of Commercial Construction. Some of the topics include Green Building as it relates to our role in the built environment, Site Preparation and Surveying, Concrete Forming and Reinforcing, and Concrete Placement. Research of alternative materials is included in this course. This class is sponsored in part by the Associated General Contractors of America.

BUILDING TRADES I & II

Grade Level: 11-12 Credit: 3

Each course carries 16 credit hours toward Hutchinson Community College degree. The objective of the building trades program is to prepare students for employment in all phases of practical carpentry. Through this program, the student should be able to leave at the end of any given year with enough skill to enter the trade or a college level technical building trades program. This carries three units of credit for high school students but will transfer 32 credit hours to Hutchinson Community College upon completion of Building Trades I & II, should the student desire to pursue an AAS degree in Building Trades Technology.

Building Trades I A

Students will learn the basic components of the construction of a house. Both classroom and on-site instruction will deal with framing, roofing, siding, plumbing, heating, air conditioning, and electrical work. In addition, aspects of dry walling, installation of doors, cabinets, and millwork will be addressed. Good background courses include: Industrial Technology, Machine Woodworking, Sheet Metal and Welding. Building Trades I indicates the first year in the program.

Building Trades I B

This course is a research and application course that covers topics in building construction. Topics covered will include management and “green building” skills. Coursework will focus upon a particular skill or set of skills related to one subtopic, such as floor framing, wall and partition framing, interior finishing, or exterior finishing. Students will gain skills in the growing field of Green Technology, while learning the relevance of math and science in the workplace.

Building Trades I C

Students will acquire skill and knowledge related to the electrical systems found in family dwellings. Topics may also include cable installation, telephone systems, and the installation of lighting fixtures, outlets, and an overview of security systems utilized in many of today’s homes.

Building Trades I D

A course designed to instruct students in the skills required for residential remodeling and maintenance. Students analyze problems and related solutions associated with restoration and rehabilitation projects. Topics covered include: removal of existing interior finish materials, restoration of materials, insulation, wiring, plumbing & heating, drywall & plaster repair, wallpapering, painting, staining, and finishing techniques.

Building Trades II A

Students will learn fine skills and have the opportunity to explore their area of interest in greater depth. The opportunity to learn management or team leader responsibilities will be given for those who have an interest in this area. This is a continuation of Building Trades I utilizing both classroom and on-site instruction to deal with framing, roofing, siding, plumbing, heating, air conditioning, and electrical work. In addition, aspects of dry walling, installation of doors, cabinets, and millwork will be addressed.. Good background courses include: Industrial Technology, Machine Woodworking, Sheet Metal and Welding. Building Trades II indicates the second year in the program.

Building Trades II B

Students will learn basic and advanced principles in heating, ventilation, and air conditioning and include topics such as air filtration methods, humidity control, and the installation and maintenance of heat pumps, furnaces, and air conditioners. Students also learn about climate control systems; electrical wiring; systems design; sizing, fabricating, and installing ductwork; installing and maintaining climate control systems; and safety.

Building Trades II C

This course addresses continued HVAC instruction and an introduction to plumbing. Topics include installation, assembly, maintenance, and repair of piping, plumbing, heating equipment, and water and drainage systems. Students will also cover the computation of heat losses and BTU requirements and blueprint reading. Students gain experience with electric, gas, and oil furnaces; vacuum pumps; air compressors; and mechanical and pneumatic testing equipment.

Building Trades II D

Students will be instructed in supervision, estimating, construction materials, tools, and equipment used in the construction trade. Estimating the ratio of labor to material cost for rough framing, exterior finish, and interior finish carpentry will also be covered.

COMPUTER AIDED DRAFTING (CAD)

Grade Level: 10-12 **Credit: .5**

CAD has fast become the standard for industrial drawings. This class teaches drafting technology using a PC and AutoCad software. The student will learn the commands needed to complete a variety of drawings. The student will study many aspects of CAD production including line, arch and circle construction, screen control, snap editing, layering, dimensioning, plotting and printing, and file management. Basic drafting skills would be helpful but not required. This course is designed in part to prepare students for admission to a university.

ADVANCED COMPUTER AIDED DRAFTING

Grade Level: 10-12 **Credit: .5**

In this course the student will use the advanced capabilities of CAD. These include: 3-D modeling, shading, rendering, block and library creation, point filters and view ports. Basic drafting skills would be helpful, but not required.

ARCHITECTURAL DRAFTING

Grade Level: 11-12 **Credit: 1**

























This is a beginning level class for students interested in learning more about house design and structural engineering. Each student will be required to draw and design a set of house plans for a given house designated by the instructor. The plans will include the floor plan, electrical plan, foundation plan, front elevation, back elevation, right side elevation, left side elevation, pictorial, section, heating and hair, and plumbing plan. Each student will be required to provide a door and window schedule and calculate the total cost. The students will be able to use the internet to help with their cost analysis.

INTERIOR DESIGN

Grade Level: 10-12 **Credit: .5**

This course is an introduction to interior design. We will discuss the importance of design in the home and workplace. Other topics include: housing styles from 1700's to present, drawing and analyzing floor plans, bathroom and kitchen designs, color wheel, the meaning of color and color schemes, elements and principles of design, past and present furniture styles, floor and wall coverings and window treatments. To demonstrate what has been learned, each student will create a design board for a living room. The board will include the floor plan, pictures of selected furniture, wall, window and floor treatments and coordinating fabric samples. Each student will make a formal presentation to the class. Students will become familiar with the personal and technical skills required for a successful career in interior design.

BUSINESS, MARKETING, AND MANAGEMENT

COURSE TITLE	CREDIT	BUSINESS MANAGEMENT AND ADMINISTRATION PATHWAY	FINANCE PATHWAY	MARKETING PATHWAY
Business Essentials Grade Level: 9-12 Prerequisite: None	0.5			
Money Matters Grade Level: 10-12 Prerequisite: None	0.5			
Entrepreneurship Grade Level 10-12 Prerequisite: None	0.5			
Business Management Grade Level: 11-12 Prerequisite: None	.5 - 1.5			
Criminal & Business Law Grade Level: 11-12 Prerequisite: None	0.5			
Applied Business Development Grade Level: 11-12 Prerequisite: Business Management, Employment	.5 - 1.5			
Accounting I Grade Level: 11-12 Prerequisite: None	1.0			
Accounting for Business Operations Grade Level: 11-12 Prerequisite: Accounting I	0.5			
Advanced Accounting for Business Operations Grade Level: 11-12 Prerequisite: Adv Accounting for Business Operations	0.5			
Business & Career Presentations Grade Level: 10-12 Prerequisite: None	0.5			
Marketing Grade Level: 9-12 Prerequisite: None	.5 – 1.0			
Marketing Management Grade Level: 12 Prerequisite: Business Management	.5 - 1.5			
Marketing Research Grade Level: 11 – Prerequisite: None	1.0			
Small Business Ownership I Grade Level: 11-12 Prerequisite: None	.5 - 1.5			
Small Business Ownership II Grade Level: 11-12 Prerequisite: Small Business Ownership I	.5 - 1.5			
Sports & Entertainment Marketing Grade Level: 9-12 Prerequisite: None	0.5			
Computer Graphics Grade Level: 9-12 Prerequisite: None	0.5			
Advanced Computer Graphics Grade Level: 9-12 Prerequisite: Computer Graphics	0.5			
Web Design I Grade Level 10-12 Prerequisite: None	0.5			
Web Design II Grade Level 10-12 Prerequisite: Web Design I	0.5			

BUSINESS ESSENTIALS

Grade Level: 9-12 Credit: .5

Everyone needs to know basic business skills and concepts. The world of business is exciting, challenging, attainable, and fun. Some of the units included in this course include: economics, business organizations, banking services, buying on credit, savings, retailing, consumer activities, ethics, common business terminology and diversity in the workplace.

ENTREPRENEURSHIP

Grade Level: 10-12 Credit: .5

Want to be your own boss? How would the title of "CEO" look after your name? This course is designed to provide a foundation to plan, design, start and promote a profitable business venture. Students will learn the principles necessary to begin and operate a business including developing a plan for a new business.

BUSINESS AND CAREER PRESENTATIONS

Grade Level: 10-12 Credit: .5

In this course, students will explore communication skills including written business communications, verbal communication, electronic communications, job seeking skills and interpersonal skills. Software used in preparation for and delivery of presentations will include Word Processing, PowerPoint, iPad and the Internet. This class satisfies the Speech requirement for graduation.

BUSINESS MANAGEMENT

Grade Level: 11-12 Credit: .5

Managing a business in today's economy involves a whole lot more than just telling other people what to do! What do you really need? You need a strong foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent managers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate management decisions.

CRIMINAL AND BUSINESS LAW

Grade Level: 11-12 Credit: .5

Do you know your rights? Do you know how the laws for minors differ from laws for adults? Anyone who wants to know the basic laws that apply to everyday life, or who is planning a career in any area of business or legal profession, such as Court Reporter, Legal Secretary, Paralegal, or Lawyer, this is the class for YOU! Students apply technical skills to address business applications of contemporary legal issues. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

APPLIED BUSINESS DEVELOPMENT

Grade Level: 11-12 Credit: .5

Students in this course will have an opportunity to build a foundation in business management principles and practices that impact ALL business operations. This will be an opportunity to expand their expertise in career related skills; i.e. resumes, job search, applications, job retention, etc. Topics covered in class will also cover experiences that students will encounter in the workplace. **This could also include hiring and firing employees, working with unions, keeping employees happy, dealing with salaries, and dealing with employee scheduling.**

ACCOUNTING I

Grade Level: 10-12 Credit: 1

This is a course in basic bookkeeping and computerized accounting procedures with practical value for all students and vocational value for students contemplating business careers at the end of high school or college. Success is dependent on at least average ability in reading and mathematics. Students considering majoring in business and/or taking college accounting should definitely enroll in this class.

ACCOUNTING FOR BUSINESS OPERATIONS

Grade Level: 11-12 Credit: 1

Students first learn how businesses plan for and evaluate their operating, financing and investing decisions and then how accounting systems gather and provide data to internal and external decisions makers. This year-long course covers all the learning objectives of a traditional college level financial accounting course, plus those from a managerial accounting course. Topics include an introduction to accounting, accounting information systems, time value of money, and accounting for merchandising firms, sales and receivables, fixed assets, debt and equity. Other topics include statement of cash flows, financial ratios, cost-volume profit analysis and variance analysis. This course is designed in part to prepare students for admission to a university.

ADVANCED ACCOUNTING FOR BUSINESS OPERATIONS

Grade Level: 11-12 Credit: .5

This course is a continuation of Accounting for Business Operations. Topics build on the material covered in Accounting for Business Operations, plus accounting for fixed assets, debt and equity and a comprehensive approach to the statement of cash flows. This course is designed in part to prepare students for admission to a university. At the end of the course, students have the option to take an advanced placement exam to receive college credit from Kansas State University (or from colleges that have been set up with articulation agreements with KSU).

MARKETING

Grade Level: 9-12 Credit: .5 – 1.0

This course addresses the functions involved in the marketing of goods and services and provides students with the competencies necessary for successful marketing employment. The development of competencies in the areas of personal selling, advertising, visual merchandising, physical distribution, purchasing, market planning, product/service technology, and marketing mathematics enable students to become well-rounded marketing employees who contribute to the success of marketing businesses.

SPORTS & ENTERTAINMENT MARKETING

Grade Level: 9-12 Credit: .5

Walking into Gowans Stadium, you ask yourself why is that name on the stadium? You hand your ticket to the attendant and you wonder how does the district decide ticket prices? In the stadium you notice the various field banners advertising several companies; you check the score of the game, Wow, yet another company name. Who decides this? How do they know what Salthawk products to sell? Why are all the NFL uniforms Reebok? Who decides what games to broadcast on TV? Learn how the sport and entertainment business industry works to meet their customer needs, and explore the planning involved in deciding what products and services to sell and how marketing affects sales.

MARKETING MANAGEMENT

Grade Level: 12 Credit: 1.5

The course covers the following topics: understanding consumer and corporate behavior, conducting customer and competitor analysis, branding and brand extension, pricing, designing distribution channels, and managing marketing-mix activities. Emphasis is placed on the functions of marketing, planning and managing the marketing activities, providing an understanding of the fundamental issues that influence marketing decisions, supervisory responsibilities, marketing information management, and product and service management. Additional instructional areas include leadership, management skills, and risk management.

MARKETING RESEARCH

Grade Level: 11-12 Credit: 1.0

Marketing Research will focus on how to: (1) specify information needs and design a research study to meet those needs; (2) collect, analyze and use marketing research data to make effective marketing decisions; (3) communicate the research findings and their implications to various groups of people.

SMALL BUSINESS OWNERSHIP I

Grade Level: 11-12 Credit: .5 - 1.5

This is your chance to learn how to plan a small business! Amaze investors, bank loan officers, accountants and lawyers by understanding the importance of a well thought out business plan for your new entrepreneurial venture. You will have the opportunity to work individually or in teams to watch your idea come to life in the form of an individualized business plan. The units of study associated with this course include: examining entrepreneurship as a career, sources of new business enterprise ideas, analyzing markets and studying competitors, planning and organizing a business enterprise, marketing products/services, obtaining financing, cash flow charts, preparing a financial plan, and selling your idea through the development of a business plan.

SMALL BUSINESS OWNERSHIP II

Grade Level: 11-12I Credit: .5 - 1.5

Be creative -- actually operate a small business -- collaborate as a team! This is a "hands-on" course based on your ideas! Students will plan, organize, manage and liquidate a company and even earn real money for themselves and the company stockholders. This course will apply business concepts learned in previous classes. The opportunity for creativity is yours where you will demonstrate the "*entrepreneurial spirit*".

COMPUTER GRAPHICS

Grade Level: 9-12 Credit: .5

Computer Graphics is an art course designed to explore the use of the computer as a tool to produce art and graphics. Emphasis will be placed upon the proficient use of software and hardware and the elements of effective and creative design. Students who enroll in this course should have good drawing and/or computer skills. This course is designed in part to prepare students for admission to a university.

ADVANCED COMPUTER GRAPHICS

Grade Level: 9-12 Credit: .5

The course is designed to enhance the knowledge base of students considering a career in the production or utilization of computer generated graphics, internet, or interactive computer products. The course will focus on the production of complex computer projects to develop the student's knowledge of materials, techniques, processes, and aesthetic elements as related to the computer graphics industry. Areas of study will include graphic design, photo alteration, and photo compositing and internet design. This course is designed in part to prepare students for admission to a university.

WEB DESIGN I

Grade Level: 10-12 Credit: .5






















Content covered in this class relates to acquiring and demonstrating the skills and techniques necessary for building and maintaining web sites. Students will progress through a series of project that emphasizes hands-on training using industry standard software (Adobe™). Each successive project will include fundamental terms, concepts and techniques that provide a strong foundation in web design. These include developing research strategies using the Web, working as a team in a hi-tech network environment, building interactive multimedia presentations and portfolios while designing web sites.

WEB DESIGN II

Grade Level: 10-12 Credit: .5

After completing Web Design I – students will continue to progress through a project-based curriculum that develops skills in web design and production using industry standard web tools (Adobe™) as they build and maintain the student produced website of HHS. These projects develop key digital communication skills such as design, project management, and web technology. Each project builds on lessons learned previously. This course aligns with the International Society for Technology in Education (ISTE) National Educational Technology Standards (NETS) for Students as well as the new Adobe Certified Associate Web Communication and Rich Media Communication objectives to prepare students for certification.

HOSPITALITY AND TOURISM

COURSE TITLE	CREDIT	CULINARY ARTS AND MANAGEMENT PATHWAY	EVENT MANAGEMENT PATHWAY
Business Essentials Grade Level: 9-12 Prerequisite: None	0.5		
Entrepreneurship Grade Level 10-12 Prerequisite: None	0.5		
Applied Business Development Grade Level: 11-12 Prerequisite: Business Mgt, Employment	.5 – 1.5		
Marketing Grade Level 9-12 Prerequisite: None	1.0		
Career Pathway Exploration Grade Level: 9-12 Prerequisite: None	0.5		
Culinary Essentials Grade Level 10-12 Prerequisite: None	0.5		
Baking and Pastry I Grade Level 11-12 Prereq: Culinary Arts I	0.5		
Culinary Arts I Grade Level 10-12 Prereq: Culinary Essentials	1.0		
Culinary Arts II Grade Level 11-12 Prereq: Culinary Arts I	0.5		
Event Planning and Management Grade Level 10-12 Prerequisite: None	0.5		
Nutrition and Wellness Grade Level 10-12 Prerequisite: None	0.5		
Career & Community Relations Grade Level: 11-12 Prerequisite: None	1.0		

BUSINESS ESSENTIALS

Grade Level: 9-12 Credit: .5

Everyone needs to know basic business skills and concepts. The world of business is exciting, challenging, attainable, and fun. Some of the units included in this course include: economics, business organizations, banking services, buying on credit, savings, retailing, consumer activities, ethics, common business terminology and diversity in the workplace.

ENTREPRENEURSHIP

Grade Level: 10-12 Credit: .5

Want to be your own boss? How would the title of “CEO” look after your name? This course is designed to provide a foundation to plan, design, start and promote a profitable business venture. Students will learn the principles necessary to begin and operate a business including developing a plan for a new business.

APPLIED BUSINESS DEVELOPMENT

Grade Level: 11-12 Credit: .5

Students in this course will have an opportunity to build a foundation in business management principles and practices that impact ALL business operations. This will be an opportunity to expand their expertise in career related skills; i.e. resumes, job search, applications, job retention, etc. Topics covered in class will also cover experiences that students will encounter in the workplace. **This could also include hiring and firing employees, working with unions, keeping employees happy, dealing with salaries, and dealing with employee scheduling.**

MARKETING

Grade Level: 9-12 Credit: .5 - 1

This course addresses the functions involved in the marketing of goods and services and provides students with the competencies necessary for successful marketing employment. The development of competencies in the areas of personal selling, advertising, visual merchandising, physical distribution, purchasing, market planning, product/service technology, and marketing mathematics enable students to become well-rounded marketing employees who contribute to the success of marketing businesses.

CAREER PATHWAY EXPLORATION

Grade Level: 9-12 Credit: .5

This course assists the individual in developing career and life skills by helping them identify their dependable strengths as well as barriers in their life. Individuals will develop a personal profile and a career and educational plan for their life. Students will take ownership in their secondary and post-secondary career and educational pathways by exploring what they are interested in (interests), what they are good at (skills), what they find important in a future work environment (values) as well as discovering their unique personality and thinking styles.

CULINARY ESSENTIALS

Grade Level 9-12 Credit: .5

Culinary Essentials is for students interested in cooking for their families or pursuing a career in the food-service industry. Nutrition and healthy food preparation will be the focus as students discuss and practice preparation techniques. Students will work in small groups to prepare a variety of food products in class. Course topics include sanitation and safety procedures, nutrition and dietary guidelines, reading recipes and proper measuring techniques, cooking principles that preserve nutrients, and comparing scratch products to convenience items for quality and cost. A final project requires students to prepare and serve a healthy meal at home.

EVENT PLANNING & MANAGEMENT

Grade Level 10-12 Credit: .5

This course provides students with the knowledge and skills related to the event planning and implementation process. It will include establishing client relationships, the importance of communication, planning process, resource management, quality service and staffing issues.

BAKING and PASTRY I

Grade Level 11-12 Credit: .5

This course covers the basic theory and skill sets used throughout the field of baking and pastry. Topics covered include the use of hand tools and equipment found in a bakeshop, as well as the exploration of baking and pastry ingredients and their functions. Blending, foaming, meringues and many other methods will be covered. Tasting and evaluating products will enhance students understanding of course material.

CULINARY ARTS I

Grade Level 10-12 Credit: 1

Students must successfully complete Culinary Arts IA in order to take IB. In Culinary Arts IB, students will experience the planning, preparation and serving of at least one catered event. This course integrates the knowledge, skills, and practices required for careers in the restaurant industry. Students will develop culinary skills for a variety of food products by making and selling food items. Topics covered in the class will include sanitation and safety procedures, nutrition and dietary guidelines, quantity food production and presentation, and correct use of production equipment and facility management principles.

CULINARY ARTS II

Grade Level 11-12 Credit: .5

Is the second level of Culinary Arts and prepares students for gainful employment into the food production and service industry. Students will learn the basic skills needed for a career in the food service industry. Units in sanitation, hot food production, meat identification, pantry etc. will be covered.

NUTRITION AND WELLNESS

Grade Level: 10-12 Credit: .5


























Students will determine what wellness is, evaluate their own wellness, and examine personal life choices. The course includes the study of nutrients. Topics include: wellness trends, managing wellness, self-esteem and self-image. Food preparation is a part of this class. Basic knowledge of cooking utensils and kitchen safety is covered. Students will walk in class for 20-30 minutes twice a week and determine number of calories burned.

CAREER AND COMMUNITY RELATIONS

Grades 11-12 Credit: .5

This is the application level course for the Human Services Pathway. Career and Community Relations provides the opportunity to focus on career related topics, team building, and effectiveness in the world of work. You will explore your own personal development to advance within the workplace. Included will be continued the continued development and finalization of the student's portfolio. Through individual and team action projects, the student will explore the challenges facing the family and community. Videos, field trips, and guest speakers will enrich the course.

INFORMATION TECHNOLOGY

OURSE TITLE	CREDIT	WEB & DIGITAL COMMUNICATIONS PATHWAY	NETWORK SYSTEMS PATHWAY	PROGRAMMING & SOFTWARE DEVELOPMENT PATHWAY
Computer Applications Grade Level: 9-12 Prerequisite: None	0.5			
Computer Graphics Grade Level: 9-12 Prerequisite: None	0.5			
Advanced Computer Graphics Grade Level: 9-12 Prerequisite: Computer Graphics	0.5			
Web Design I Grade Level 10-12 Prerequisite: None	0.5			
Web Design II Grade Level 10-12 Prerequisite: Web Design I	0.5			
3D Animation & Graphics Grade Level: 10-12 Prerequisite: Adv Comp Graph	0.5			
Gigonomics & E-Marketing Grade Level: 10-12 Prerequisite: None	0.5			
iCreate Grade Level: 10-12 Prereq: Web I or Comp Graph	0.5			
21st Century Technology Grade Level: 9-12 Prerequisite: None	0.5			
Emerging Trends and Technology Grade Level: 11-12 Prerequisite: None	0.5			
Directed Studies in Media Technology Grade Level: 11-12 Prerequisite: Web Design II or iCreate	0.5			
Information Technology in a Global Society (ITGS) Grade Level: 11-12 Prerequisite: Instructor Approval	1.0			
Game Design with 3D Modeling Grade Level: 11-12 Visual Basic or Instructor Permission	1.0			
Visual Basic Computer Engineer Grade Level: 11-12 Prerequisite: Adv. Algebra	1.0			
Tech Support Grade Level: 11-12 Prerequisite: Application	.5 – 1.5			
CISCO I & II Grade Level: 11-12 Prerequisite: None	1.5			
CISCO III & IV Grade Level: 12 Prerequisite: CISCO I & II	1.5			
A+ Certification Essentials Grade Level 11-12 Prerequisite: None	0.5			
A+ Certification Practical Application Grade Level 11-12 Prerequisite: A+ Cert Prac App	0.5			
Networking I & II Grade Level: 11-12 Prerequisite: None	1.0			

COMPUTER APPLICATIONS

Grade Level: 9-12

Credit: .5

This course will use a PC with Microsoft Office to learn word processing, drawing, spreadsheets, power point, and data management systems. The use of microcomputers will provide the student with the ability to use computers in high school and college courses, at home and in a career. This course is designed in part to prepare students for admission to a university.

GIGONOMICS & E-MARKETING

Grade Level: 10-12

Credit: .5

Pop-ups, Web Ads and Online Shopping.... Oh my! Gigonomics, or multiple jobs, is a versatile new trend. This course provides students the guidance to develop expertise in their field of interest and the tools needed to market themselves. Students will have the opportunity to develop skills that involve electronic media techniques necessary for a business to compete in a global economy. Students will coordinate online and off-line marketing. Students will demonstrate critical-thinking skills using decision-making models, case studies, various technologies, and business scenarios.

WEB DESIGN I

Grade Level: 10-12

Credit: .5

Course Description: Content covered in this class relates to acquiring and demonstrating the skills and techniques necessary for building and maintaining web sites. Students will progress through a series of project that emphasizes hands-on training using industry standard software (Adobe™). Each successive project will include fundamental terms, concepts and techniques that provide a strong foundation in web design. These include developing research strategies using the Web, working as a team in a hi-tech network environment, building interactive multimedia presentations and portfolios while designing web sites.

WEB DESIGN II

Grade Level: 10-12

Credit: .5

Course Description: After completing Web Design I – students will continue to progress through a project-based curriculum that develops skills in web design and production using industry standard web tools (Adobe™) as they build and maintain the student produced website of HHS. These projects develop key digital communication skills such as design, project management, and web technology. Each project builds on lessons learned previously. This course aligns with the International Society for Technology in Education (ISTE) National Educational Technology Standards (NETS) for Students as well as the new Adobe Certified Associate Web Communication and Rich Media Communication objectives to prepare students for certification.

iCREATE

Grade Level: 10-12

Credit: .5

This course offers advanced students the opportunity to develop digital portfolios showcasing their talents for distribution to the web and other media players using Adobe Creative Suite™, Apple™, and other Open Source software (OSS), through a series of progressive projects that emphasize the fundamentals aspects of computer-based multimedia production for networked media. This course will emphasize skill development in project management, design, research, communication and production techniques which will prepare the student for their next step in their academic and career pursuits.

DIRECTED STUDIES IN MEDIA TECHNOLOGIES

Grade Level: 11-12

Credit: .5

This course offers students who have concentrated their studies in Web and Information Technologies the opportunity to go deeper in a specific area of study leading to possible certifications such as Adobe Certified Associates, Webmaster and Web Developer Apprentices or Associates or iWork certification. Additional projects will be completed in related subject areas that will further develop the student's portfolio.

IB INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY

Grade Level: 11-12 Credit: 1

This course examines the impact of information technology (IT) on individuals and society. Students will explore the use of information systems, the consequences of IT on society, the ethical considerations of IT, and new advances in IT. Throughout the course students must analyze and evaluate the social impact of IT on individuals and society and consider the ethical issues raised by this impact. Social impact and ethical considerations need to be analyzed from local, national and global perspectives. This course is available for International Baccalaureate (IB) credit or elective credit.

21ST CENTURY TECHNOLOGY

Grade Level: 9-12 Credit: .5

The recent shift of applications and data from the desktop to the Web has brought about another stage in the evolution of computer literacy education requiring students to be both computer literate as well as Web literate. Students explore Cellular devices, iPads, Cyberbullying, Electronic Waste, History of Technology, Email, Search engines, Internet safety and more. Students discover other emerging technologies and how they impact society.

EMERGING TRENDS & TECHNOLOGY

Grade Level: 11-12 Credit: .5

What are the emerging technology trends that are going to be hitting the headlines over the next ten years? This course discusses emerging technologies, how they evolve, how to identify them, and the effect of international, political, social, economic and cultural factors on them. Emerging trends in technology will affect the way we live. Students will gain a solid understanding of the current trends in technology and concepts associated with interactive information sharing and new web applications. Areas of interest include web-based communities, social-networking, video and filing sharing sites as well as blogging, wikis and more.

COMPUTER GRAPHICS

Grade Level: 9-12 Credit: .5

Computer Graphics is an art course designed to explore the use of the computer as a tool to produce art and graphics. Emphasis will be placed upon the proficient use of software and hardware and the elements of effective and creative design. Students who enroll in this course should have good drawing and/or computer skills. This course is designed in part to prepare students for admission to a university.

ADVANCED COMPUTER GRAPHICS

Grade Level: 9-12 Credit: .5

The course is designed to enhance the knowledge base of students considering a career in the production or utilization of computer generated graphics, internet, or interactive computer products. The course will focus on the production of complex computer projects to develop the student's knowledge of materials, techniques, processes, and aesthetic elements as related to the computer graphics industry. Areas of study will include graphic design, photo alteration, and photo compositing and internet design. This course is designed in part to prepare students for admission to a university.

3D AND ANIMATION GRAPHICS

Grade Level: 10-12 Credit: .5

This course is for students who wish to continue studying advanced computer assisted design. The choices of advanced 3D software provide the students with a chance to work in specific software that best suits their career choice. The course is an extension of the basic computer drawing programs, 2D animation programs and an introduction of multiple 3D animation software's. This course will allow for the creation of a portfolio of their work to use in college applications, scholarships and/or job opportunities.

GAME DESIGN WITH 3D MODELING

Grade Level: 11-12 Credit: 1

Game Design is a course in video game development using the darkbasic compiler. Once the BASIC language is mastered, students can go on into 2D and 3D programming. Students should have 2D and 3D modeling skills prior to taking this class. Programming structures include: if/then statements, for/next statements, arrays, textures, and sounds. Students will manipulate models in a gaming environment.

VISUAL BASIC COMPUTER ENGINEERING

Grade Level: 11-12 Credit: 1

Students should have knowledge in Windows operating systems, basic computer skills and a strong background in math (advanced algebra). This course will help students develop problem solving skills using structure algorithms, logical operators, and program control statements. Students will learn a wide range of Visual Basic codes to develop programs.

A+ CERTIFICATION – ESSENTIALS

Grade Level: 11-12 Credit: .5

This competency-based course prepares students for entry-level positions common in the computer maintenance and repair field such as a computer support specialist and computer service technician. Classroom instruction and practical experience will include installation and configuration of various components, diagnostics, operating systems and software.

A+ CERTIFICATION – PRACTICAL APPLICATIONS

Grade Level: 11-12 Credit: .5

The course will build on your existing user-level knowledge and experience with personal computer software and hardware to present fundamental skills and concepts that you will use on the job. In this course, you will acquire the essential skills and information you will need to install, upgrade, repair, configure, troubleshoot, optimize, and perform preventative maintenance of basic personal computer hardware and operating systems. Students achieving competency in this course will be prepared to take the A+ Certification exams in both hardware and operating systems.

CISCO NETWORKING I & II

Grade Level: 11-12 Credit: 1 1/2

Course provides concurrent credit opportunities with Hutchinson Community College

A strong background in computers or electricity or electronics is necessary for this class. Computer networking is a skill that is in high demand in the current high tech society. Students will learn skills in terminating and routing CAT 5 or higher communications lines. Students will learn theory and designs of LANs and WANs, installation of communication cards, addressing protocols, and router and hub configurations. This class is the first in a series of classes to an earned certificate in Cisco Networking. This class may be taken for college credit. This course is designed in part to prepare students for admission to a university.

CISCO NETWORKING III & IV

Grade Level: 12 Credit: 1 1/2

Course provides concurrent credit opportunities with Hutchinson Community College

The Cisco Networking Academy Program provides in-depth and meaningful networking content. The curriculum integrates networking instruction into the classroom with hands on experiences. This curriculum covers several concepts: OSI model, Router commands and operating systems, LAN switching, VLANs, LAN design, IGRP routing protocols, Access Controls Lists, Novell IP X, WAN Design, Point to Point protocols, ISDN, Frame Relay, and Network Management. Students must pass all exams in parts I, II, III, and IV with a 70% or better to take the Cisco Certified Networking Associate (CCNA) exam. This certification is in high demand and will give students excellent employment opportunities. This course is designed in part to prepare students for admission to a university and can be taken for college credit.

NETWORKING I & II

Grade Level: 11-12 **Credit: 1**













Introduction of common networking LAN and WAN schema with emphasis on development of procedures for choosing best network configurations including topology, protocol, hardware, software and media selection; technology concepts introduced with hands-on application. Extensive coverage of common LAN, WAN schema with emphasis on development of Technology Plan for small business networks with procedures for installation, maintenance and support with in-depth, hands-on application.

TECH SUPPORT

Grade Level: 12 **Credit: 1 1/2**

This work experience class is designed to allow students to serve as customer support personnel for the district. Students may be responsible for, but not limited to: installing, upgrading, maintaining, and troubleshooting hardware, software, and peripheral devices for PC's and MAC's; training faculty and staff to operate PC/MAC hardware, software, and peripheral devices.

HUMAN RESOURCES AND SERVICES

COURSE TITLE	CREDIT	CONSUMER SERVICES PATHWAY	FAMILY AND COMMUNITY SERVICES PATHWAY
Intro to FACS Grade Level: 9-12 Prerequisite: None	0.5		
Career Pathway Exploration Grade Level: 9-12 Prerequisite: None	0.5		
Entrepreneurship Grade Level 10-12 Prerequisite: None	0.5		
Independent Living Grade Level: 10-12 Prerequisite: None	0.5		
Marketing Grade Level 9-12 Prerequisite: None	.5 - 1		
Career and Community Relations Grade Level: 11-12 Prerequisite: None	0.5		
Human Growth & Development Grade Level 10-12 Prerequisite: Child Development	0.5		
Marriage, Family & Work Grade Level 10-12 Prerequisite: None	0.5		
Nutrition and Wellness Grade Level 10-12 Prerequisite: None	0.5		
Child Development Grade Level 10-12 Prerequisite: None	0.5		
Marriage, Family & Work Grade Level 10-12 Prerequisite: None	0.5		

INTRO TO FACS

Grade Level: 9-12 Credit: .5

This is the introductory course to the Family and Consumer Science program. The purpose of this class is to prepare students for adult life as a family member, wage earner, and community leader. Course content includes: nutrition and wellness, parenting skills, interpersonal relationships, and resource management. Advanced courses in each of these areas are open to students after completing this course.

CAREER PATHWAY EXPLORATION

Grade Level: 9-12 Credit: .5

This course assists the individual in developing career and life skills by helping them identify their dependable strengths as well as barriers in their life. Individuals will develop a personal profile and a career and educational plan for their life. Students will take ownership in their secondary and post-secondary career and educational pathways by exploring what they are interested in (interests), what they are good at (skills), what they find important in a future work environment (values) as well as discovering their unique personality and thinking styles.

INDEPENDENT LIVING

Grade Level: 10-12 Credit: .5

Students will learn to apply knowledge of consumer skills when making choices about living on their own. Topics include: learning about consumerism, finding and keeping a job, finding an affordable place to live, examining pay and benefits and banking issues. Students will go in-depth with the job-hunting process. Using the Kansas Career Pipeline, students will complete interest inventories and discover careers that reflect their strengths. From there, they will research a career of their choice. Other skills to be developed include filling out job applications and participating in a mock interview. Finding affordable housing and managing a budget will be the next unit of study with an in-depth checkbook activity (write checks, record them in a register and balance the account each month). A unit on communication skills will help students develop appropriate responses for a variety of situations. Guest speakers are a highlight in this class.

ENTREPRENEURSHIP

Grade Level: 10-12 Credit: .5

Want to be your own boss? How would the title of "CEO" look after your name? This course is designed to provide a foundation to plan, design, start and promote a profitable business venture. Students will learn the principles necessary to begin and operate a business including developing a plan for a new business.

MARKETING

Grade Level: 9-12 Credit: .5 - 1

This course addresses the functions involved in the marketing of goods and services and provides students with the competencies necessary for successful marketing employment. The development of competencies in the areas of personal selling, advertising, visual merchandising, physical distribution, purchasing, market planning, product/service technology, and marketing mathematics enable students to become well-rounded marketing employees who contribute to the success of marketing businesses.

CAREER AND COMMUNITY RELATIONS

Grades 11-12 Credit: .5

This is the application level course for the Human Services Pathway. Career and Community Relations provides the opportunity to focus on career related topics, team building, and effectiveness in the world of work. You will explore your own personal development and acquire the job-seeking and retention skills needed to advance within the workplace. Included will be continued development and finalization of the student's portfolio. Through individual and team action projects, you will explore the challenges facing the family and community. Videos, field trips, and guest speakers will enrich the course.

HUMAN GROWTH & DEVELOPMENT

Grade Level: 10-12 Credit: .5

This course is an introduction to the fundamental concepts in human physical and social development across the lifespan. We will examine how people grow and change based on maturation and life experiences. The process of growth and development begins at the cellular level and continues throughout life until death. This class is a highly recommended addition to the Medical Science and the Teaching and Training Pathways.

MARRIAGE, FAMILY & WORK

Grade Level: 10-12 Credit: .5

This course deals with recognizing multiple roles and responsibilities of individuals and family members. It concentrates on work and family issues related to the workplace; including decision making, conflicts, family challenges and problem solving. Students will study mate selection starting with dating through marriage. Many human sexuality issues will be covered. Videos and guest speakers will enrich this class.

NUTRITION AND WELLNESS

Grade Level: 10-12 Credit: .5

Students will determine what wellness is, evaluate their own wellness, and examine personal life choices. The course includes the study of nutrients, MyPyramid, serving sizes, restaurant menu nutrition, special dietary needs and reading and understanding nutrition labels. Topics include: wellness trends, managing wellness, self-esteem and self-image. Food preparation is a part of this class. Basic knowledge of cooking utensils and kitchen safety is covered. Students will walk in class for 20-30 minutes twice a week. Students will wear a pedometer when walking and then record the length of their walk and number of calories burned.

CHILD DEVELOPMENT

Grade Level: 10-12 Credit: .5

This course focuses primarily on child development from birth through preschool. Students will learn about physical and mental developmental changes appropriate for each age and study about various developmental theories. In addition, this course will examine a variety of social issues that concern parenting. Topics such as child abuse, divorce, children with special needs and balancing work and family will be included. Related videos and guest speakers will also be included.

MEDICAL SCIENCE

<u>COURSE TITLE</u>	<u>CREDIT</u>	<u>GRADE LEVEL</u>				<u>PREREQUISITE</u>
		<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	
Medical Science I	1.0	Ⓢ	Ⓢ	Ⓢ	Ⓢ	None
Medical Science II	1.0		Ⓢ	Ⓢ	Ⓢ	Medical Science I
Advanced Medical Science II	0.5		Ⓢ	Ⓢ	Ⓢ	Completion of CNA Certification
Medical Terminology	0.5		Ⓢ	Ⓢ	Ⓢ	Medical Science I
Athletic Training	0.5		Ⓢ	Ⓢ	Ⓢ	None
Emergency Medical Technician	3.0			Ⓢ	Ⓢ	4 th & 5 th Hour blocked all 3 trimesters
Medical Internship	0.5			Ⓢ	Ⓢ	Completion of CNA Certification and Instructor Permission
Human Anatomy & Physiology	1.00			Ⓢ	Ⓢ	9 th and 10 th
Home Health Care	0.5			Ⓢ	Ⓢ	Completion of CAN Certification

MEDICAL SCIENCE I

Grade Level: 9-12 Credit: 1

This course is designed to introduce students to the variety of careers in the health care field. These careers are divided into those dealing with therapeutic, diagnostic, informational, environmental, and biotechnology research areas of health care. Each of the professional areas will be explored as related to work performance, working conditions, hours and earnings, education and training, licenses, professional societies, personal qualification, employment outlook, entry and advancement. Students will learn medical language as a background for classes to follow in the student's chosen health field. Core technical skills will be developed within the classroom as well as a range of shadow experiences targeting areas of interest in the health care field.

MEDICAL SCIENCE II

Grade Level: 10-12 Credit: 1

Successful completion of this class allows students to gain certification as a CNA (Certified Nurse Assistant). In this course the emphasis is to train, promote and enhance employability skills and attributes in the health care field. Core technical skills required in all health care areas will be taught. This will be accomplished by skill development within the classroom as well as a range of clinical experiences targeting areas of interest in the health care field. All students will be expected to provide their own transportation to and from these on-site experiences. All participants shall show proof of up-to-date hepatitis immunizations and TB test results. There will be a \$40.00 state testing fee later in the course.

ADV. MEDICAL SCIENCE II

Grade Level: 11-12 **Credit: .5**

Successful completion of this class allows students to gain certification as a CMA(Certified Medication Aide). This course provides certified nurse aides with the fundamental knowledge of medications; their use, actions, side effects and dosages. Documentation, would management and supervision skills are taught. Students must pass theory and clinical portions. Meets state requirements for Certified Medication Aide state exam. All students will be expected to provide their own transportation to and from these on-site experiences. All participants shall show proof of up-to-date hepatitis immunizations and TB test results.

MEDICAL TERMINOLOGY

Grade Level: 10-12 **Credit: .5**

Students will learn how to identify medical terms by analyzing their components. This course emphasizes defining medical prefixes, root words, suffixes, and abbreviations. The primary focus is on developing both oral and written skills in the language used to communicate within health care professions. Emphasis is placed on spelling, pronunciation, correct usage, and meaning relating to body systems, medical science, and medical specialties.

ATHLETIC TRAINING

Grade Level: 10-12 **Credit: .5**

This course is designed to provide students with the knowledge of injury recognition, evaluation, care and rehabilitation. Students will learn taping techniques, injury prevention and rehabilitation procedures. In addition, students will be exposed to training room procedures such as record keeping and organization and will have the opportunity to gain hands-on training experience.

HOME HEALTH CARE

Grade Level: 11-12 **Credit: .5**

This course will provide fundamental knowledge of the aging process with emphasis on providing services essential to the physical, mental, and psycho-social well-being of clients in the home setting Students will learn to incorporate basic care of clients with the Instrumental Activities of Daily Living in the home setting.

EMERGENCY MEDICAL TECHNICIAN

Grade Level: 11-12 **Credit: 3**

Successful completion of this class allows students to gain certification as an EMT (Emergency Medical Technician). The emergency medical technician is an entry-level care provider. Basic life support ambulance services are primarily composed of EMT's First responders often act as second or third-position team members along with the EMT on an ambulance service. Fire Personnel and other emergency teams may also be trained to this level. EMT's may also supplement paramedic or advanced life support staffing of ambulances. A national registry examination is required for certifications. All students will be expected to provide their own transportation to and from these on-site experiences. All participants shall show proof of up-to-date hepatitis immunizations and TB test results.

MEDICAL INTERNSHIP

Prerequisite: **Credit: .5 – 1.5**

This course provides students an internship experience opportunity in Biotechnology Research and Development, Diagnostic Services, Supportive Services, Health Informatics or Therapeutic Services. Instructional content may include classroom activities as well as involving further study of the field or discussion regarding experiences that students encounter in the workplace. Goals will be set cooperatively by the student, teacher and employer.

MANUFACTURING

COURSE TITLE	CREDIT	PRODUCTION PATHWAY	MAINTENANCE PATHWAY
Introduction to Industrial Technology Grade Level: 9-12 Prerequisite: None	0.5	@	@
Production Blueprint Reading Grade Level: 9-12 Prerequisite: None	0.5	@	@
Intro to Welding Grade Level 10-12 Prerequisite: None	0.5	@	
Maintenance Welding SMAW & GMAW Grade Level 10-12 Prerequisite: None	1.0		@
Maintenance Welding C – Pipe Grade Level 10-12 Prerequisite: Maint Weld SMAW & GMAW	.5		@
Automated Systems Grade Level 11-12 Prerequisite: Welding Tech I or Concurrent Enrollment	.5	@	
Welding Technology I Grade Level 11-12 Prerequisite: Application and all 3 trimesters, 2 hour block	3.0	@	
Welding Technology II Grade Level 12 Prerequisite: Application and all 3 trimesters, 2 hour block	3.0	@	
CNC Technology Grade Level 10-12 Prerequisite: None	0.5	@	
Introduction to Machine Technology Grade Level 10-12 Prerequisite: None	1.0	@	
Computer Aided Drafting (CAD) Grade Level 10-12 Prerequisite: None	0.5	@	
Machine Drafting Grade Level 10-12 Prerequisite: Drafting	0.5	@	
Advanced CAD Grade Level 10-12 Prerequisite: CAD	0.5	@	
Machine Technology I Grade Level 11-12 Prereq: App, all 3 tris, 2 hr block	3.0	@	@
Machine Technology II Grade Level 12 Prerequisite: Application and all 3 trimesters, 2 hour block	3.0	@	@
Sheet Metal Technology Grade Level 10-12 Prerequisite: Intro to Welding	0.5		@
HVAC Technology Grade Level 11-12 Prerequisite: None	0.5		@
Plumbing Technology Grade Level 11-12 Prerequisite: None	0.5		@
Hydraulics & Pneumatics Grade Level 11-12 Prerequisite: None	0.5		@

INTRODUCTION TO INDUSTRIAL TECHNOLOGY

Grade Level: 9-12 **Credit: .5**

This course provides the student an opportunity to explore and experience various areas within the industrial technology area. This survey course is specifically designed to assist students in identifying their interests, and also to provide challenging, fun, and varied activities. Topics covered will include basic skills necessary to all occupations in the construction, manufacturing and transportation areas.

INTRO TO WELDING

Grade Level: 10-12 **Credit: .5**

Welding course designed for students to gain knowledge and skill used in the welding industry to safely and efficiently join and cut metals using various Arc Welding (such as Shielded Metal, Gas Metal and Gas Tungsten) and Oxygen-Acetylene processes. Students will also gain knowledge in metal identification, blueprint reading, welding symbols and metallurgy.

MAINTENANCE WELDING A – SMAW AND/OR B - GMAW

Grade Level: 10-12 **Credit: 1** **You do not have to complete A before B**

Welding course designed for students to gain knowledge and skill in welding for the purpose of repair and maintenance. This is an advanced level of study in which students will learn to safely perform welding, soldering, brazing and cutting on various types of metals in multiple weld positions. A more in-depth exposure in metal identification, blueprint reading, welding symbols and metallurgy is also covered.

MAINTENANCE WELDING C -PIPE

Grade Level: 10-12 **Credit: .5**

Welding course designed for students to gain knowledge and skill in welding for the purpose of repair and maintenance. This is an advanced level of study in which students will learn to safely perform welding, soldering, brazing and cutting on various types of metals in multiple weld positions. A more in-depth exposure in metal identification, blueprint reading, welding symbols and metallurgy is also covered.

MACHINE DRAFTING

Grade Level: 10-12 **Credit: .5**

Students draw machine parts and study the requirements related to machine shop practices in industry. Further work on CAD practices and techniques will be completed in this class. This course is designed in part to prepare students for admission to a university.

WELDING TECHNOLOGY I & II

Grade Level: 11-12 **Credit: 3**

Welding course designed for students to gain knowledge and skill in welding for the purpose of manufacturing and production. This is an advanced level of study in which students will learn to safely perform welding, brazing and cutting on various types of metals in multiple weld positions and with multiple passes. An in-depth exposure to metal identification, blueprint reading, welding symbols and metallurgy is covered. Students will also be exposed to welding theory and the use of destructive and non-destructing testing used to validate the weld process according to applicable welding codes and prints.

WELDING TECHNOLOGY II

Grade Level: 12 **Credit: 3**

An application welding course designed to enhance the knowledge and skill of students preparing to enter the welding industry. Students will be exposed to advance welding and cutting techniques and positions using various joint designs and welding processes. Students will also be able to measure material, identify and solve problems in fabrication, calculate material and weld requirements and critique welds according to applicable welding codes and prints.

AUTOMATED SYSTEMS

Grade: 11-12 Credit: .5

Students will review a brief history of automated process, compare and contrast benefits of automated equipment and debate the future outlook for equipment in the manufacturing industry. Students will learn the function and safe operation of various types of automated equipment, program operations and run the program. Types of equipment that may be used in the course are robotic welders, CNC plasma cutter, metal brakes, and sheers.

COMPUTER NUMERICAL CONTROL (CNC) TECHNOLOGY

Grade Level: 10-12 Credit: .5

This class is an introduction of the computer and measuring coordinate systems common to the machining industry. Students will design and construct projects on the CNC (computer numerical control) Mill and CNC Lathe. This course should follow Introduction to Machine Technology. This course is designed in part to prepare students for admission to a university or enrollment into Machine Technology I.

INTRODUCTION TO MACHINE TECHNOLOGY

Grade Level: 10-12 Credit: 1

This class consists of machine technology training and related information. The class is open to sophomores, juniors, and seniors who have a strong desire to enter the machining trade. Basic instruction is given for operation of machine tools and the reading of precision instruments.

COMPUTER AIDED DRAFTING (CAD)

Grade Level: 10-12 Credit: .5

CAD has fast become the standard for industrial drawings. This class teaches drafting technology using a PC and AutoCad software. The student will learn the commands needed to complete a variety of drawings. The student will study many aspects of CAD production including line, arch and circle construction, screen control, snap editing, layering, dimensioning, plotting and printing, and file management. Basic drafting skills would be helpful but not required. This course is designed in part to prepare students for admission to a university.

ADVANCED COMPUTER AIDED DRAFTING

Grade Level: 10-12 Credit: .5

In this course the student will use the advanced capabilities of CAD. These include: 3-D modeling, shading, rendering, block and library creation, point filters and view ports. Basic drafting skills would be helpful, but not required.

SHEET METAL TECHNOLOGY

Grade Level: 10-12 Credit: .5

Sheet Metal course is designed to expose students to the skills and information necessary to safely layout, fabricate, assemble, install, maintain and repair items and structures created from sheet metal components using blueprint reading, welding, finishing and polishing techniques.

HYDRAULICS & PNEUMATICS

Grade Level: 11-12 Credit: .5

This course will provide students with advanced knowledge and skills in operating, maintaining and troubleshooting hydraulic & pneumatic systems.

MACHINE TECHNOLOGY I & II

Grade Level: 11-12 **Credit: 3**

Each course carries 16 credit hours toward Hutchinson Community College degree

The class meets three hours daily. The student receives instruction in the use of metal turning lathes, milling machines, grinding machines, computer numerical control and reading of precision instruments used in industry. The course is intended to teach basic skills in the use of industrial machines so that a student would be qualified to meet the requirements for employment with the Machining or Engineering careers. Good background courses include: Math, Drafting, Welding, and Introduction to Machine Technology. Machine Technology I indicates the first year in the program. Machine Technology II indicates the second year in the program. This is a three-hour course and carries three units of credit for high school students but will transfer 32 credit hours to Hutchinson Community College should the student desire to pursue an AAS degree in Machine Technology.

HVAC TECHNOLOGY

Grade Level: 11-12 **Credit: .5**

Students will learn basic and advanced principles in heating, ventilation, and air conditioning and include topics such as air filtration methods, humidity control, and the installation and maintenance of heat pumps, furnaces, and air conditioners. Students also learn about climate control systems; electrical wiring; systems design; sizing, fabricating, and installing ductwork; installing and maintaining climate control systems; and safety.

PLUMBING TECHNOLOGY

Grade Level: 11-12 **Credit: .5**

Students will be provided with instruction in installing waste and vent systems, water and gas pipes, trim, and fixtures. Skills taught include cutting and joining various types of pipe (for instance, steel, plastic) using various methods (cement, seat method, etc).

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (Pre-Engineering)

<u>COURSE TITLE</u>	<u>CREDIT</u>	<u>GRADE LEVEL</u>				<u>PREREQUISITE</u>
		<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	
Introduction to Engineering Design	1.0	Ⓢ	Ⓢ	Ⓢ	Ⓢ	None
Principles of Engineering	1.0		Ⓢ	Ⓢ	Ⓢ	Introduction to Engineering Design
Foundations of Electronics	1.0		Ⓢ	Ⓢ	Ⓢ	None
Digital Electronics	1.0		Ⓢ	Ⓢ	Ⓢ	Introduction to Engineering Design or Electricity
Civil Engineering and Architecture	1.0			Ⓢ	Ⓢ	Principles of Engineering and Digital Electronics
Computer Integrated Manufacturing	1.0		Ⓢ	Ⓢ	Ⓢ	Introduction to Engineering Design
Robotics	.5			Ⓢ		Visual Basic Computer Engineer
Aerospace Engineering	1.0			Ⓢ	Ⓢ	Digital Electronics or Instructors Permission
Engineering Design and Development	1.0				Ⓢ	Specialized Engineering Course

PRINCIPLES OF ENGINEERING

Grade Level: 9-10 Credit: 1

This course explores the wide variety of careers in engineering and engineering technology and covers various technology systems and manufacturing processes. Using activities, projects, and problems, students learn firsthand how engineers and technicians use math, science, and technology in an engineering problem-solving process to benefit people. The course also addresses concerns about social and political consequences of technological change. POE gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning that is also used in IED. Activities include material testing, ballistics, robotic control systems, simple machine application, mechanical systems, electrical systems, and thermal systems.

FOUNDATIONS OF ELECTRONICS

Grade Level: 10-12 Credit: 1

This class is a combination of class work and lab work. Topics covered are electrical theory, house wiring, motor operation, appliance operation, and circuit construction. Time is allocated for the student to repair or make projects to take home. This course is an excellent introduction to the auto, TV, radio, telephone and computer service industries.

DIGITAL ELECTRONICS

Grade Level: 10-12 **Credit: 1**

This is a course in applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test circuitry prior to the actual construction of circuits and devices. Students will experiment, test, and analyze the theory and application of electrical and electronic systems. Activities include analog and digital circuits, logic gates and Boolean algebra, counter systems, microcontrollers and robotics. Students design, assemble, and trouble shoot electronic projects. DE gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning that is also used in IED.

CIVIL ENGINEERING AND ARCHITECTURE

Grade Level: 11-12 **Credit: 1**

The major focus of the Civil Engineering and Architecture course is a long-term project that involves the development of a local property site. As the students learn various aspects of civil engineering and architecture they apply it to the design and development of this property. The course provides freedom to model the real-world experiences that civil engineers and architects experience when developing property. In the development of the property students gain understanding in the areas of surveying, soil testing, water supply, waste disposal, heat flow, structural calculation, architectural style, and knowledge of building materials are used APPB based class. Students use Revit software from AutoDesk as a design tool. CEA gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning that is also used in IED.

COMPUTER INTEGRATED MANUFACTURING

Grade Level: 10 **Credit: 1**

Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation. Students can earn a virtual manufacturing badge recognized by the National Manufacturing Badge system.

ROBOTICS

Grade Level: 11 **Credit: .5**

Student enrolled in this course will demonstrate knowledge and skills in robotics. Students will learn assembling and troubleshooting robotic parts and systems. They will gain experience with programming artificial intelligence, integrating peripherals, sensors and feedback systems.

AEROSPACE ENGINEERING

Grade Level: 11-12 **Credit: 1**

Aerospace Engineering course is to expose students to the world of aeronautics, flight, and engineering. Students will be introduced to the Project Lead The Way® activity-based, project-based, and problem-based learning through exploring the world of aerospace engineering. Students should have experience in engineering, science, mathematics, and technology education classes. They will employ engineering and scientific concepts in the solution of aerospace problems. Lessons will engage students in engineering design problems related to aerospace information systems, astronautics, rocketry, propulsion, the physics of space science, space life sciences, the biology of space science, principles of aeronautics, structures and materials, and systems engineering.

ENGINEERING DESIGN AND DEVELOPMENT

Grade Level: 12 **Credit: 1**

This is a research course that requires students to formulate the solution to an open-ended engineering question. With a community mentor and skills gained in their previous courses, students create written reports on their applications, defend the reports, and submit them to a panel of outside reviewers at the end of the school year.

TRANSPORTATION, DISTRIBUTION, AND LOGISTICS (Auto Technology & Auto Body/Collision Repair)

COURSE TITLE	CREDIT	GRADE LEVEL				PREREQUISITE
		<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	
Intro to Industrial Technology	0.5	@	@	@	@	None
Small Gas Engines	0.5		@	@	@	None
Transportation Technology (Auto Technology)	0.5		@	@	@	None
Transportation Technology (Auto Body/Collision Repair)	0.5		@	@	@	None
Auto Technology I	3.0			@	@	Application
Auto Technology II	3.0				@	Application
Collision Repair Technology I	3.0			@	@	Application
Collision Repair Technology II	3.0				@	Application

INTRODUCTION TO INDUSTRIAL TECHNOLOGY

Grade Level: 9-12 **Credit: .5**

This course provides the student an opportunity to explore and experience various areas within the industrial technology area. This survey course is specifically designed to assist students in identifying their interests, and also to provide challenging, fun, and varied activities. Topics covered will include basic skills necessary to all occupations in the construction, manufacturing and transportation areas.

TRANSPORTATION TECHNOLOGY (AUTO TECHNOLOGY)

Grade Level: 10-12 **Credit: .5**

This course functions primarily as an introduction to the transportation field. Auto Technology students will be taught the theories of operation, construction, maintenance, repair and adjustment of automobiles and their components.

TRANSPORTATION TECHNOLOGY (AUTO BODY/COLLISION REPAIR)

Grade Level: 10-12 **Credit: .5**

This course will cover the many steps and procedures involved in restoring collision damaged automobiles to their pre-accident condition. Students will also learn about automobile design and construction. The majority of the student's time in this course will be spent involved in hands-on, shop-based assignments and activities.

SMALL GAS ENGINES

Grade Level: 10-12 **Credit: ½**

This class is designed to provide students with valuable knowledge and skills to diagnose problems and repair two and four cycle engines. Each student will have the opportunity to disassemble and reassemble a small engine and make it run. Several engine designs will be studied. This class serves as a good basis for students wishing to enter other mechanical trade areas.

COLLISION REPAIR TECHNOLOGY I

Grade Level: 11-12 **Credit: 3**

Course carries 16 credit hours toward Hutchinson Community College degree

This course is designed to teach students the basic skills of the collision repair trade and prepares them to continue their training in Automotive Collision Repair Technology II. Basic skills taught in this course include: sheet metal welding, dent repair, plastic repair, panel replacement & alignment, and estimating. This course utilizes a combination of classroom lecture and ample hands-on training.

Collision Repair Technology I C

This course is an introduction to current refinishing products, shop safety, and equipment used in the automotive refinishing industry. Course emphasis is on surface preparation, masking techniques, and refinishing of replacement parts.

COLLISION REPAIR TECHNOLOGY II

Grade Level: 12 Credit: 3

Course carries 16 credit hours toward Hutchinson Community College degree

This course is designed for the students who have completed Automotive Collision Repair Technology I. Students receive training in advanced collision repair tasks. Frame & unibody straightening, structural component replacement & sectioning and paint tinting & blending are examples of the skills the students will learn. In addition, the students will continue to practice and perfect the basic skills that they have learned in Automotive Collision repair Technology I. This is a three-hour course and carries three units of credit for high school students but will transfer 32 credit hours to Hutchinson Community College should the student desire to pursue an AAS degree in Auto Body Technology. The program is located in the Hutchinson Career and Technical Education Academy.

Collision Repair Technology II C

This course covers expanded training in mixing and spraying of automotive topcoats. Emphasis on formula ingredient, reducing, thinning, and special spraying techniques are included.

AUTO TECHNOLOGY I

AUTO TECHNOLOGY II

Grade Level: 11-12 Credit: 3

Each course carries 16 credit hours toward Hutchinson Community College degree

The program is designed to teach the necessary knowledge and skill in the field of auto technology to students interested in being employed as an automotive technician. Good background subjects include: Electricity, Electronics, Small Gas Engines, and Automotive Mechanics. Automotive Technology I is the first year in the program. Automotive Technology II is the second year in the program. This is a three-hour course and carries three units of credit for high school students but will transfer 32 credit hours to Hutchinson Community College should the student desire to pursue an AAS degree in Auto Technology. The program is located in the Vocational Technical Center.

HHS-HCC

DUAL CREDIT COURSES

The following Hutchinson Community College courses may be taken by Hutchinson High School students, and if successfully completed, will result in both high school and college credit. The courses on this list were chosen because they fulfill elective credit at the high school, as well as general education requirements at most 2-year and 4-year colleges and universities. To receive dual credit, students must enroll at Hutchinson Community College and pay tuition as well as enroll at Hutchinson High School. Tuition is approximately \$55 per credit hour, payable in advance of class attendance. The following testing is a prerequisite for all college courses except Math : COMPASS TEST a score of 75 or score at least a 20 on the ACT ENGLISH. Math classes require one of the following: 21 ACT MATH, 45 MATH ASSET, or 75 ACCUPLACER.

Detailed information about college course enrollment and forms necessary to enroll may be obtained in the Counseling Center.

EN 101 ENGLISH COMPOSITION IA

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

EN 102 ENGLISH COMPOSITION II

Prerequisite: EN 101 English Composition IA

Theory and application in composition, techniques of persuasive and research writing, and critical reading and writing on selected thematic units.

EN 128 INTRODUCTION OF CREATIVE WRITING

Understanding and explanation of elements of the writer's craft in prose and poetry are covered.

EN 201 INTRODUCTION TO LITERATURE

Prerequisite: EN 101

Types of literature covered are: fiction, epic, drama and poetry. Compositions appropriate to the selections are required.

SH 101 PUBLIC SPEAKING

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

SH 100 FUNDAMENTALS OF SOCIOLOGY

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

SO 101 MARRIAGE AND FAMILY

Practical approaches to mate selection, courtship and the adjustment of marriage and development of attitudes necessary for the building of a happy marriage are covered.

PS 100 GENERAL PSYCHOLOGY

This is a survey of the fundamental principles of behavior, including physiological, perceptual, historical, methodological, learning, memory, developmental, emotional, social and applied perspectives.

PS 101 HUMAN RELATIONS

Prerequisite: *PS 100*

Psychological principles applied to everyday living, with an emphasis on self-understanding and building successful relationships will be covered.

PS 102 HUMAN GROWTH AND DEVELOPMENT

Prerequisite: *PS 100*

This course is a survey of the theories of and current research into the psychological development of individuals from birth to death. The focus is on the progressive changes experienced in the physical, cognitive and social-emotional domains of life.

HE202 NUTRITION

Nutrition requirements of a person during the successive stages of development with emphasis on nutrients, their availability in foods and factors affecting their utilization.

PL 104 ETHICS

The dynamics of moral decision-making with consideration of major ethical systems and their biblical, theological and philosophical foundations will be covered.

PL 105 DEATH AND DYING

This course is a philosophical, religious and personal consideration with focus on personal thoughts about the dying process, feelings of the dying individual, legal regulations and cultural-religious customs.

FR 101 ELEM FRENCH I/II

For students who have no French or one semester of high school French.

GR 101 ELEMENTARY GERMAN I

Fundamentals of pronunciation and grammar with emphasis on understanding and speaking phrases of practical value and on German life and culture will be covered. This course is not open to students with credit in high school German.

GR 102 ELEMENTARY GERMAN II

Prerequisite: *GR 101, 1 yr. of high school German or consent of instructor*

This will be a continuation of GR 101 with emphasis on reading German prose.

SP 103 ELEMENTARY SPANISH I

Fundamentals of pronunciation and minimum essentials of grammar. The oral approach is used with emphasis on understanding, speaking, reading and writing phrases of practical value. For students who have no Spanish or one semester of high school Spanish.

SP 104 ELEMENTARY SPANISH II

Prerequisite: *SP 103, one semester of high school Spanish, or consent of instructor*

Continuation of Elementary Spanish I; the second phase of a reading, writing, listening and speaking Spanish course.

SP 105 ELEMENTARY SPANISH III

Prerequisite: *SP 104, one year of high school Spanish, or permission of instructor*

A reading, writing, listening and speaking course; continuation of Elementary Spanish II.

SP 202 SPANISH COMPOSITION AND CONVERSATION

Prerequisite: *SP 105, two years of high school Spanish, or permission of instructor*

An intensive study of Spanish grammar with systematic training in writing and speaking.

MU 101 MUSIC APPRECIATION/MUSIC THEORY

Elements of musical understanding and the study of representative compositions will be covered. This is a general education course for non-music majors.

AR 101 ART APPRECIATION

This is an introduction to basic principles of composition, drawing, and color theory. Emphasis on increasing awareness of the variety of visual expression from viewing works of art from the past and present. There will be hands-on experience in composition, color and drawing. It is for non-art majors. This course is also offered at HHS first trimester.

CH 105 CHEMISTRY I LECTURE AND LAB

Prerequisite: *High school Chemistry*

Atomic theory, chemical bonding, chemical reactions, energy, gases, solids, liquids, solutions and organic chemistry will be covered. Laboratory experiments include analysis, synthesis and acquisition of quantitative data. For the student whose curriculum requires at least 2 semesters of general or inorganic chemistry. There will be three periods lecture and one three hour laboratory once a week.

CH 106 CHEMISTRY II LECTURE AND LAB

Prerequisite: *CH 105*

Continuation of CH 105. Solutions and colloids, thermodynamics, kinetics, ionic equilibria, electrochemistry, coordination chemistry and nuclear chemistry. The laboratory includes quantitative experiments from the above areas plus visible spectroscopy and brief qualitative analyses. Three hours lecture, three hours laboratory and one hour laboratory lecture per week.

PY 112 GENERAL PHYSICS LECTURE AND LAB

Prerequisite: *Completion of Honors Trigonometry with a B or higher. Concurrent enrollment in Calculus is recommended.*

This class will cover principles of motion, mechanics and heat. It is general course which satisfies requirements in medicine, biology, agriculture, dentistry, forestry, pharmacy and liberal arts.

PY 103 PHYSICAL GEOLOGY

The earth's structural and dynamic features, materials of the earth, processes and a brief history of the earth will be covered.

PY 104 PHYSICAL GEOLOGY LAB

Prerequisite: *PY 103 or concurrent enrollment*

Minerals, rocks, topographic and geologic maps will be covered.

BI 104 BIOLOGY I & II

Students must take a college level chemistry class either prior to or while enrolled in this class.

Fundamental concepts of Biology as they apply to all living things.

CH108 PRINCIPLES OF ORGANIC AND BIOCHEMISTRY

Students must have completed CH105 or CH110H

Study of the important groups of organic compounds, their properties and their reactions.

CH201/CH202 ORGANIC CHEMISTRY I/II

Prerequisite: CH106

In-depth study of organic chemistry with emphasis on the mechanisms and organic reactions and synthesis with labs focusing on the preparation, purification and analysis of organic products.

MA110 CALCULUS I/II

Prerequisite: MA106 Col Alg (Check with transferring college, not recommended for Math/Engineering Majors)

Limits and continuity, elem differential and integral calculus with applications to business, economic and social science.

MA 106 COLLEGE ALGEBRA

Prerequisite: Functions and Statistics and ACT math score of 21 or Accuplacer score of 75

Topics include: theory of equations, functions, inverse functions, complex numbers, determinants, matrices. High school students who are currently earning a B or higher in Honors Precalculus and Discrete Math and/or Honors Calculus should consult with the chairman of the Mathematics Department at HCC before enrolling in this course.

BA 101 ACCOUNTING I

Grade Level: 12

Semester: 1

HHS Credit: 1/2 HCC Credit: 3

Prerequisite: HHS Business Technology

An introduction to accounting fundamentals of single proprietorship. Topics include the accounting cycle, financial statements, inventory, notes, depreciation and accounting principles and concepts.

BA 105 SMALL BUSINESS OWNERSHIP HHS – INTRODUCTION TO BUSINESS HCC

Grade Level: 11-12

Semester: 1

HHS Credit: 1/2

HCC Credit: 3

Prerequisite: Application

A study of the economic environment including organization, management, labor, marketing, finance, accounting, selling, and advertising. A major component of this course is career exploration in the field of business.

EC 100 MACROECONOMICS

Grade Level: 12

Trimesters: 1 1/2

HHS Credit: 1/2 HCC Credit: 3

Basic facts, principles and problems of economics; determination of supply, demand and price level; the monetary and banking system; inflation and growth; the stock market and principles of economic development; and other economic systems.