

University of Texas

University Charter School

Course Guide

2014-2015

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UT-UCS GRADUATION REQUIREMENTS (Students who enter 2015 and beyond)			
Curriculum Area	<i>Foundation High School Plan (Requires Placement)</i>	<i>Foundation Plan +Endorsements</i>	<i>Distinguished Achievement Plan</i>
English	4 credits	4 credits	4 credits
Math	3 credits	4 credits	4 credits (must include Alg 2)
Science	3 credits	4 credits	4 credits
Social Studies	2 .5 credits	2.5 credits	4 credits
Economics	.5 credit	.5 credit	.5 credit
Other Languages	2 credits	2 credits	2 credits (same language)
Physical Education	1.0 credit	1.0 credit	1.0 credit
Fine Arts	1.0 credit	1.0 credit	1.0 credit
Electives	5 credits	7 credits	7 credits
Endorsements	None	See Chart and Options	See Chart and Options
Total Credits	22 credits	26 credits	26 credits
State Exams ***	EOC	EOC	EOC

1. **English: Four credits:** English I, II, III, IV.
2. **Mathematics: Three credits: Foundation Plan** must include Algebra 1, Geometry and additional advanced math
Four credits; Endorsements or Distinguished Plan must include Algebra 1, Geometry, Algebra 2, the fourth may be selected from any advanced math.
3. **Science: Three credits: Foundation Plan** requires one of the following combinations:
 Biology, Integrated Physics & Chemistry (IPC) and advanced science
 Biology, and two additional advanced Sciences
Four Credits: +Endorsements Plan requires (IPC), Biology and two additional advanced sciences or Biology, and any combination of 3 additional advanced sciences.
4. **Social Studies: Two and one-half credits: Foundation Plan and +Endorsements** requires one of the following combinations
 US History, US Government (½ credit), World History
 US History, US Government (½ credit), World Geography
 US History, US Government (½ credit), World History and Geography Combo class
5. **Economics: One-half credit**
6. **Physical Education: One credit**
8. **Fine Art: One Credit:** Music, Theatre Art, Choir, or Art. This may be a combination of two.
9. **+Endorsement Options:**
STEM: In addition to 4 Math and 4 Science, 2 of the 7 elective hours must be in the field of Science, Technology, Engineering, or Mathematics.
Business and Industry: In addition to 4 Math and 4 Science, 2 of the 7 elective hours must be in the Business and Industry field.
Arts and Humanities: In addition to 4 Math and 4 Science, 2 of the 7 elective hours must be in the Arts and Humanities field
Public Service: In addition to the 4 Math and 4 Science, 2 of the 7 elective hours must be in the Public Service field.
 Multidisciplinary Studies: In addition to the 4 Math and 4 Science, 2 of the 7 elective hours must be represented by any combination of the above disciplines.
10. **Distinguished endorsements:** 1 of the 4 required Math courses must be Algebra II.

11. Total Credits: Only State Board of Education-approved courses are counted toward graduation requirements; local credit courses are not awarded state credit and cannot be counted.

12. State Exams: For students entering prior to 2011-2012, they must pass all sections of the Exit-Level TAKS (ELA, Math, Science, and Social Studies).

*** Students entering 2011 and beyond will be required to take the End Of Course (EOC) test for the following subjects, English I, II, Algebra I, Biology, and U.S. History. For all plans they must score Satisfactory Performance (Level II) for each test.

13. Students may change their endorsement options at any time.

GENERAL INFORMATION

All University of Texas-University Charter School courses meet the state standards for curriculum and instruction. For more information concerning grading, please refer to the Student Information Guide.

UT-UCS teachers, curriculum coordinators and administrators design each course to meet the educational needs of their students and deliver the material in a way that is age/ability appropriate. Students who successfully complete UT-UCS courses receive credit that is transferable to any other secondary school.

High School Grade Level Classification

Listed below is a summary of the minimum number of course credits required for grade level classification.

For students entering high school for the first time during or after the 2007-2008 school year:

Sophomore	6 credits
Junior	11 credits
Senior	17 credits

Change in grade level classification is only made at the beginning of the fall semester. Reclassification may occur immediately following the fall semester in extreme circumstances if submitted in writing by the principal to the Superintendent for approval. Emphasis is placed on earning the proper credits in a progression toward graduation, not the student's grade level classification.

Course Load

The maximum and minimum number of credits that can be earned during the regular school year without principal approval are noted below.

Regular School Year

Time in School	Credits Earned Per Semester	Credits Earned Per Year
Half-Day Campus	1 ½ - 2 credits	at least 3, but not more than 4
Full-Day Campus	3 – 4 credits earned per semester	at least 6, but not more than 8

Summer Session

The maximum number of credits that can be earned during the summer session without principal approval is two. A student may earn more than two credits during the summer session with principal approval. Correspondence courses are not considered part of the course load unless they are given as part of the UT-UCS curriculum.

Dual or Concurrent Credit Programs

Students may earn credit in a high school course by completing an equivalent course at the college level by concurrent enrollment in a high school and college course with curriculum for both courses. Students must complete the college level work through an accredited college. Courses may be taken during the fall, spring, or summer semesters. Students taking advantage of the dual credit program should contact the college to determine credit transfer to a college degree program. Students need to be aware that failing or not completing a dual credit class could have negative consequences on graduation plans. Students must be Junior- or Senior- level, and are limited to 2 college courses per semester and no more than 7 semester credit hours in one semester.

Students should follow the process below for dual credit and concurrent enrollment:

1. Consult Academic Transition Coordinator (ATC) for academic advising, course enrollment permission and transcript.
2. Schedule TSI (Texas Success Initiative) formerly the THEA, TASP, or other ACC admission assessment, unless exempt.
3. Complete College Admission form.
4. Obtain all required signatures on forms.
5. Submit admission application with transcript to college.
6. Register for classes.
7. Pay fees.
8. Submit copy of paid receipt to Academic Transition Coordinator for district record.
9. Credit is awarded for a grade of 70 or equivalent to a C. The student must attain the grade report from the participating college and present to the ATC and principal for award of credit.

Student Success Initiative (SSI/Grade Placement Committee): In addition to local policy relating to grade advancement, students in grades 5 and 8 shall demonstrate proficiency in reading and math as required by TEC §28.0211 (a), in order to advance to the next grade. Demonstrated proficiency is defined under this section as meeting the passing standard on the appropriate assessment instruments specified by §101.2003 (a) of the title (relating to Grade Advancement Testing Requirement). If a student does not demonstrate proficiency on one or both of these assessments, the student may advance to or be placed in the next grade level only if (1) he or she completes **all** accelerated instruction required by the Grade Place Committee (GPC), and (2) the GPC determines, by unanimous decision, that the student is likely to perform on grade level by the end of the next school year given additional accelerated instruction during the course of the year. In making promotion decisions, the GPC is required to consider the recommendation of the student's teacher, the student's grades, the student's state assessment scores, and any other relevant academic information. Students who are promoted despite not performing satisfactorily on SSI assessments must be assigned to a teacher who meets all state and federal qualifications to teach that subject and grade. *Texas Administrative Code (TAC) 101.2001 (b).*

Credit by Exam for Credit Recovery

Credit by Exam allows students who have had formal instruction and have failed a course to gain credit by passing a proficiency examination covering the Texas Essential Knowledge and Skills of the course. Students must score a 70% or higher to recover credit. These exams are administered throughout the year as needed.

Gifted and Talented (GT) Program

Identified GT students are served through group and individualized instruction in the classroom as well as through special programs. These special programs include extension of the regular classroom program, accelerated pacing, enrichment activities, dual credit coursework, and exams for acceleration.

All students who have previously been identified as gifted are admitted into the program. Teachers, parents, or students may nominate students for the program. Nominated students will have the option to participate in assessment to determine eligibility for the program according to district guidelines.

Special Education Services

The University of Texas-University Charter School provides a continuum of specially designed instructional supports and services for students with disabilities eligible for Special Education services. A full range of academic supports for grades K-12 are available and can be accessed through either the general education program of instruction or through special education instruction and related services, as determined by the admission, review, and dismissal (ARD) committee. The school district curriculum enables each student with disabilities to acquire knowledge and skills that are commensurate with the student's needs and abilities.

Credit Recovery

UT-UCS uses an online self-paced Computer Based Instruction program (CBI) for credit recovery. Students access course work online during the school day as a scheduled class or outside the school day (including summer school) to regain credits for courses which they have already taken, but were not awarded credit. Odyssey Ware or CBI for Credit Recovery is available for the following courses:

- Algebra 1, 2
- English 1-4
- Pre-Calculus
- Biology
- French 1, 2
- Spanish 1, 2
- Basic Computer Information Systems (BIMM) A and B
- Geometry
- US Government
- Chemistry
- Health
- US History
- Essentials of Communication (Speech)
- Integrated Physics and Chemistry (IPC)
- World Geography
- Economics
- Physics
- World History
- Psychology
- Consumer Math (Math Models)

Acceleration for Credit Acquisition

Students may accelerate courses for credit by utilizing the Odysseyware curriculum or credit by exam. If taking a credit by exam without prior instruction, the CBE score must be at least 90% to receive credit for the course. For credit acquisition, the following elective courses may be taken utilizing the Odyssey Ware or CBI program.

Permission for enrollment in any Odysseyware course not mentioned below must be approved by the Director of Curriculum and Instruction.

Computer Based Instruction Elective Course Names:

Course Name	Course Code (PEIMS Code 022)	Odysseyware Name	Course Length	Credit
Art I	03500100	Art History	18 weeks	0.5
Health Education	03810100	High School Health	18 weeks	0.5
Music I Theory A	03152700	Music Theory	18 weeks	0.5
Music I Theory B	03152700	Music Appreciation	18 weeks	0.5
Psychology	03350100	Psychology	18 weeks	0.5
Special Topics in Social Studies I	03380002	Civil War	18 weeks	0.5
Special Topics in Social Studies II	03380022	Vietnam Era	18 weeks	0.5
Special Topics in Social Studies III	03380031	Twentieth Century American History	18 weeks	0.5
Principles of Agriculture, Food, and Natural Resources	13000200	Introduction to Agriculture, Food, and Natural Resources	18 weeks	0.5
Agribusiness Management and Marketing	1300900	Agribusiness Systems	18 weeks	0.5
Horticulture Science	13002000	Plant Systems	18 weeks	0.5
Principles of Business, Marketing, and Finance	13011200	Principles of Business and Finance	18 weeks	0.5
Business Information Management I A	13011400	BCIS A	18 weeks	0.5

Business Information Management I B	13011400	BCIS B	18 weeks	0.5
Business Law	13011700	Business Law	18 weeks	0.5
Entrepreneurship	13034400	Small Business Entrepreneurship	18 weeks	0.5
Principles of Human Services A	13024200	Introduction to Human Services	18 weeks	0.5
Principles of Human Services B	13024200	Human Growth and Development	18 weeks	0.5
Interpersonal Studies	13024400	Personal and Family Living	18 weeks	0.5
Dollars and Sense	13024300	Personal Financial Literacy	18 weeks	0.5
Principles of Hospitality and Tourism	13022200	Introduction to Hospitality and Tourism Systems	18 weeks	0.5
Hotel Management	13022300	Lodging Operations Management	18 weeks	0.5
Restaurant Management	13022400	Food and Beverage Management	18 weeks	0.5
Principles of Health Science A	13020200	Exploring Careers in the Health Sciences	18 weeks	0.5
Principles of Health Science B	13020200	Careers in Allied Health	18 weeks	0.5
Principles of Information Technology A	13027200	Introduction to Information Technology	18 weeks	0.5
Principles of Information Technology B	13027200	Fundamentals of Computer Systems	18 weeks	0.5
Telecommunications and Networking A	13027400	Introduction to Network Systems	18 weeks	0.5
Telecommunications and Networking B	13027400	Network System Design	18 weeks	0.5
Foundations of Physical Fitness	PES00052	Physical Fitness	18 weeks	0.5
Individual or Team Sports	PES00055	Physical Education	18 weeks	0.5

ART HISTORY

Art I Credit 0.5: This course is a yearlong elective designed to enable students to develop knowledge of the history and theory of art and the relationship between artist, artwork, and society. Students research and critique period, styles, and works of art from early civilizations through modern and contemporary art. Assignments place a strong emphasis on student inquiry, research, and writing.

CIVIL WAR

Special Topics in SS I Credit 0.5: This course embarks students on a fascinating journey of the history of the Civil War. It is a story of human choices that linked the past to the present and influenced the future. It is a drama of how one nation changed through times of conflict and cooperation. It is a tale of two children (the North and South) living under the same roof (The United States) and how they disagreed over the issues of states' rights and slavery. As you study the Civil War, you will detect patterns in the way people thought and acted. You will see familiar patterns in how battles were won and lost. You will also note how events happening today affect the future. The principle of cause and effect applies in everything you do.

HIGH SCHOOL HEALTH

Health Credit 0.5: High School Health is a health science elective course that introduces students to good health, what it is, why good health is important, and what students should do in order to achieve good health.

MUSIC THEORY

Music I Theory A Credit 0.5: Music Theory is a semester-length fine arts elective for high school students. The course requires no prior instrumental, vocal, or music theory study. Using the piano keyboard as a visual basis for comprehension, the course materials explore the nature of music, integrating these concepts. This highly interactive course culminates in the students producing original compositions, which while based on standard notation,

demonstrate facets of personal expression. As the students' ability to perform increases in the future, they may better understand music and therefore better demonstrate its intrinsic communication of emotion and ideas.

MUSIC APPRECIATION

Music I Theory B Credit 0.5: The goal of this semester-long course is to provide instruction in basic musical elements, trace the development and growth of classical music, and give students a strong foundation for a greater appreciation of music. Students examine music in the world around them and discover how they experience music. They are introduced to the basic elements and sounds of music and instruments. Students learn the names and backgrounds of several famous musical composers. Students also learn how and where classical music began, how it developed over the centuries, and the ways in which music and culture affect each other. Lastly, students examine the ways modern music has been influenced by classical music.

PSYCHOLOGY

Psychology Credit 0.5: Psychology is an introductory elective course for high school students. Throughout the course students examine influences on human actions and beliefs, factors influencing behavior and perception, and basic psychological theories. Students develop and apply their understanding of psychology through lessons and projects that require interaction and observation of others.

VIETNAM ERA

Special Topics in SS II Credit 0.5: What comes to mind when you think about the Vietnam Era? For many, that period represents a difficult time in U.S. history. It is defined by an unpopular war that claimed the lives of 58,000 Americans and some 3 million Vietnamese. In this course, students look at the history of the Vietnam War. The roots of the conflict stretch further back than you might know. Students examine why the United States got involved in the conflict and why the United States failed to achieve its objectives.

TWENTIETH CENTURY AMERICAN HISTORY

Special Topics in SS III Credit 0.5: Twentieth Century American History is a history elective for high school students interested in examining American history during a century of change, continuity, and conflicts. Students examine America's economic, political, governmental, cultural, and technological growing pains during the twentieth century. They also consider the causes and effects of national and international cooperation, competition, and conflict.

CAREER AND TECHNOLOGY CLUSTERS

AGRICULTURE CLUSTER

INTRODUCTION TO AGRICULTURE, FOOD, AND NATURAL RESOURCES

Principles of Agriculture, Food, and Natural Resources Credit 0.5: This semester-length high school elective introduces students to the basic scientific principles of Agriculture and Natural Resources. Students will be recognizing and researching plant systems, animal systems, government policy, "green" technologies, agribusiness principles, and sustainability systems. Students should be familiar with the concepts taught in general science classes. These courses include basic biology, basic simple chemistry, and fundamentals of earth science. A basic appreciation for the importance of these science topics and courses to agriculture and some knowledge of the various agricultural industries from farming and ranching to food production and protection is recommended.

AGRIBUSINESS SYSTEMS

Agribusiness Management and Marketing Credit 0.5: Agribusiness Systems is a semester-length high school elective that introduces the business, management, marketing, and financial skills needed to successfully produce food, fiber, and fuel for domestic and global markets. Nearly 16 percent of total U.S. employment and 14 percent of the U.S. gross domestic product can be attributed to agribusiness systems, which means agriculture, food, and natural resources play a pivotal role in the economic success of our nation. Students will learn about the components of the agribusiness system and how they interact to deliver food to our tables. They will also learn about the key elements of a successful agribusiness enterprise: economics, financial management, marketing and sales, and government policies and regulations.

PLANT SYSTEMS

Horticulture Science Credit 0.5: Plant Systems is a semester-length high school elective that introduces students to the basics of plant biology, soil science, agriculture, and horticulture,

along with the environmental management practices involved in each, including integrated pest management, biotechnology, growth techniques, and crop management. Students will learn the basic parts of a plant, how plants are scientifically classified, and how they interact with water, air, nutrients, and light to undergo the processes of photosynthesis and respiration. Plant reproduction, including pollination, germination, and dispersal of seeds, is also presented

BUSINESS CLUSTER

PRINCIPLES OF BUSINESS AND FINANCE

Principles of Business, Marketing, and Finance Credit 0.5: This course will introduce students to the fundamental structure of the American economy, the complexities of the global economy, and the principles, practices, and strategies associated with starting, managing, or simply working for a business. The course begins with an exploration of the structure of businesses and the roles and responsibilities of those who seek to lead and manage these enterprises. From this baseline, students are introduced to topics of particular relevance in our emerging global business environment including: the technology that fuels business success, the strength of free market economies, the cyclical nature of the economy and business, hard asset and financial management, and the personal skills necessary to become a member of the business community.

BCIS A and B

Business Information Management I A and B (BIMM I) Credit 0.5 in each: BCIS I-A is a high school elective that explores the use of technology applications in both business and personal situations. The course provides key knowledge and skills in the following areas: communication skills, business technology, word processing applications, spreadsheet applications, and database applications.

BCIS I-B is a high school elective that explores the use of technology in both business and personal situations. The course provides key knowledge and skills in the following areas: telecommunications technology, desktop publishing technology, presentation technology, computer networks, and computer operating systems.

BUSINESS LAW

Business Law Credit 0.5: This course is designed to provide students with the knowledge of some of the vital legal concepts that affect commerce and trade, after first gaining some familiarity with how laws are created and interpreted. Students will then be introduced to the types of businesses that can be created to engage in commerce as well as the contractual and liability considerations that can impact a business. Laws that affect how a business is regulated will also be reviewed, particularly the impact of administrative rules and regulations on a business. Global commerce and international agreements, treaties, organizations, and courts that can affect business will be discussed to get a better sense of what it means to "go global" with a business.

Consumer and environmental protections will be explained as well as bankruptcy options, should a business go insolvent. Lastly, no business exists without experiencing some kind of dispute or another, and so we will review the options that exist for dispute resolution and alternative dispute resolution to provide a better understanding of how best to deal with such matters.

SMALL BUSINESS ENTREPRENEURSHIP

Entrepreneurship Credit 0.5: This semester-long course is designed to provide the skills needed to effectively organize, develop, create, and manage your own business, while exposing you to the challenges, problems, and issues faced by entrepreneurs. Throughout this course, you will be given the chance to see what kinds of opportunities exist for small business entrepreneurs and become aware of the necessary skills for running a business. You will become familiar with the traits and characteristics that are found in successful entrepreneurs and you will see how research, planning, operations, and regulations can affect small businesses. You will learn how to develop plans for having effective business management and marketing strategies.

Small Business Entrepreneurship will teach you basic principles of entrepreneurship and business ethics. You'll look at the major steps relevant to starting a new business. These steps include financing, marketing, and managing. Knowing how to analyze a business plan will help you develop one, while at the same time making it easier for you to understand the reasons businesses have to write one. Small Business Entrepreneurship is designed to give you an overview on running a business from start to finish.

HUMAN SERVICES

INTRODUCTION TO HUMAN SERVICES

Principles of Human Services part A Credit 0.5: This course builds an understanding of the academic, communication, and technical skills in all aspects of the industry. Learners investigate a broad range of human service careers through interest inventories, case studies, and academic exploration.

HUMAN GROWTH AND DEVELOPMENT

Principles of Human Services part B Credit 0.5: This course provides basic knowledge of human growth and development as well as skills necessary for lifelong development. Understanding the lifecycle and the natural evolution of the growth and development is an important concept applicable across all other courses within this career pathway. Learning about the impact of the cultural, social, and economic environment is important in this global workplace. This course discusses the needs of special age groups and the appropriate services for each.

PERSONAL AND FAMILY LIVING

Interpersonal Studies Credit 0.5: This semester-long high school elective takes students on an interactive exploration of the challenges they may face as they transition into adulthood, including constructive conflict resolution, nutrition and health, building healthy families, financial responsibility, and long-term employment.

PERSONAL FINANCIAL LITERACY

Dollars and Sense Credit 0.5: Personal Financial Literacy is a semester-length elective designed to help high school students prepare for success in making financial decisions throughout their lives. Topics in the course address the advantages of making sound financial decisions in the short and the long term, income planning, money management, saving and investing, and consumer rights and responsibilities.

HOSPITALITY AND TOURISM

INTRODUCTION TO HOSPITALITY AND TOURISM SYSTEMS

Principles of Hospitality and Tourism Credit 0.5: The introductory course establishes a foundation for the concept of tourism, travel, and hospitality as a system. It includes the study of the importance of interrelated system activities and discusses the components integral to international and domestic travel and tourism: destination planning and development, tour and travel distribution systems, transportation systems, attraction and entertainment systems and the hospitality industry.

LODGING OPERATIONS MANAGEMENT

Hotel Management Credit 0.5: This course presents a systematic approach to the operation of a lodging facility by detailing the flow of business from check in to check out and how the operations of the rooms division impact the overall operation of a hotel. Emphasis on the functions of the rooms division in relation to other key departments within the hotel such as food and beverage, security and loss prevention, sales and marketing, accounting will also be covered. This course serves as preparation for a career in the lodging industry with emphasis on front office operations.

FOOD AND BEVERAGE MANAGEMENT

Restaurant Management Credit 0.5: Students will examine the basics of management in the food and beverage area in this overview course. Topics to be covered include: menu planning and pricing, types of service styles, food and beverage marketing, facility design and layout and financial controls and other required areas for successful food and beverage management. Students will develop an understanding of how knowledge and application of food and beverage management principles while providing exceptional guest service can maximize profits for the hospitality industry.

HEALTH SCIENCES

EXPLORING CAREERS IN THE HEALTH SCIENCES

Principles of Health Sciences part A Credit 0.5: This course provides an overview of health careers and overriding principles central to all health professions. Units include (1) science and technology in human health, (2) Anatomy, physiology, and disease development; (3) privacy, ethics, and safety in health care, (4) Communication and teamwork in the health care environment (5) Health careers; creating a diverse workforce of lifelong learners.

CAREERS IN ALLIED HEALTH

Principles of Health Sciences part B Credit 0.5: Also known as “health-related” professions, these careers represent 60% of the health care workforce and encompass up to 200 diverse career options. These professions are placed in two broad categories: technicians or assistants and therapists or technologists. Where they are placed is dependent on the level of education and degree of supervision. In this course, we will focus on areas of select allied health careers, such as EMT/Paramedic, Genetic counseling, medical coder, optician, phlebotomist, radiologic and

respiratory technicians, registered veterinary technician, and medical illustrator. We will incorporate the key concepts introduced in the first course in each unit. The last unit of this and subsequent courses will include a dichotomous key that allows students to follow a pathway that offers suggestions for further exploration in a variety of additional allied health professions.

INFORMATION TECHNOLOGY

INTRODUCTION TO INFORMATION TECHNOLOGY

Principles of Information Technology part A Credit 0.5: Introducing the student to the knowledge base and technical skills across the spectrum of careers in the Information Technology Career Cluster, learners study and demonstrate knowledge of the functions of information systems in our world today. Emphasis will be placed on maintaining a safe working environment, developing critical assessment and analysis skills, and building interpersonal skills needed for working in the IT environment. Students demonstrate appropriate knowledge and behaviors of legal and ethical responsibilities by IT professionals. Students explore a variety of IT career opportunities and develop a personal career plan to meet their career goals and objectives.

FUNDAMENTALS OF COMPUTER SYSTEMS

Principles of Information Technology part B Credit 0.5: Students demonstrate knowledge and problem-solving skills in the area of operating systems and computer hardware. This includes, but not limited to, storage and drives, system boards, processors, memory, peripherals and networks. Emphasis will be placed on speech and client-oriented communication skills. Students demonstrate understanding of Internet security issues, how to use and troubleshoot Internet connections including Internet software, how to use virus protection techniques and how to use the Internet to communicate and collaborate. Students install and configure software programs, demonstrate knowledge of Web page basics, apply knowledge of operating system principles, employ computer system interfaces and demonstrate a basic knowledge of quality assurance concepts.

INTRODUCTION TO NETWORK SYSTEMS

Telecommunications and Networking part A Credit 0.5: Students continue to apply their knowledge of hardware and software components associated with information systems. Students identify and analyze customer/organizational network system needs and requirements, produce strategies to solve specific network problems, and analyze network system interdependencies and constraints. Students analyze the computer site environment and network security systems and evaluate the correctness and effectiveness of implementing the network system.

NETWORK SYSTEM DESIGN

Telecommunications and Networking part B Credit in 0.5: Students demonstrate knowledge of the basics of network architecture by designing a network system, learning to evaluate vendors, and select appropriate products for the client. Course content includes basic network classifications and topologies, common network computing platforms, LAN physical media, and network connectivity basis, transmission line applications, and emerging technologies that will impact network systems. Students demonstrate knowledge of communication standards for networks, WAN systems, network security systems and network operating systems and maintenance and support by performing system installations.

PHYSICAL FITNESS

Foundations of Personal Fitness Credit 0.5: Physical Fitness is a semester-long elective designed for high school students. The course focuses on the health benefits of regular physical activity and of a long term exercise program. As students work through the course, they learn about the many aspects of physical fitness, including basic nutrition, the importance of flexibility, cardiovascular health, muscle and strength training, and realistic goal setting. Along the way, students are required to maintain and submit an activity log in order to measure progress in course exercises, as well as in personal fitness goals. Upon completion of Physical Fitness, students should possess the knowledge and skills needed to do the following: Analyze the key components of successful physical activity and use this analysis to determine if a program is reasonable and effective. Describe the three main types of physical activity that should be included in an exercise regime and the health benefits of each. Perform basic fitness exercises associated with the three main types of physical activity discussed in this course.

PHYSICAL EDUCATION

Individual and Team Sports Credit 0.5: Physical Education is a semester-long elective designed for high school students. The course focuses on performance of individual and team sports, with explanations of proper technique, rules of the game, and preparation. Team sports introduced include soccer, basketball, football, baseball, and volleyball. An introduction to fitness, strength, endurance, and nutrition is also included. Students have the opportunity to perform each sport on their own time, while keeping a log of activity. The goal is an incorporation of activity into their daily lives and the gain of lifelong healthy fitness habits. Throughout the course, students are

asked to answer questions or to reflect on what they've read in their notes. The notes are not graded. Rather, they are a way for students to extend their thinking about the lesson content. Students may keep handwritten or typed notes.

ENGLISH LANGUAGE ARTS

Required Course	Course Code	Credit	Elective Course	Course Code	Credit
English I	03220100	1.0	Reading I	03270700	1.0
English I Modified	03220105	1.0	Reading II	03270800	1.0
English I Alternate	03220107	1.0	Reading III	03270900	1.0
English II	03220200	1.0	Research/Technical Writing	03221100	1.0
English II Modified	03220205	1.0			
English II Alternate	03220207	1.0			
English III	03220300	1.0	Creative Writing (Arts and Humanities Endorsement)	03221200	1.0
English III Modified	03220305	1.0			
English III Alternate	03220307	1.0	Independent Study in English	03221800	1.0
English IV	03220400	1.0			
English IV Modified	03220400	1.0			

ENGLISH I Credit: 1 Grade: 9 Length: 36 weeks

This course reflects the use of the writing process to produce compositions reflecting various purposes, modes, and audiences as well as appropriate vocabulary, syntax, and usage. Reading and writing skills are developed through the study of various genres including: short story, novel, drama, and poetry. SAT vocabulary is incorporated, as are the reading and writing skills required for success on the state-mandated assessment.

ENGLISH I MODIFIED Credit: 1 Grade: 9 Length: 36 weeks Prerequisite: ARD placement

This course is designed to enhance students' understanding of language and literature through the development of study skills, spelling and vocabulary, reading and listening comprehension skills, grammar and usage, and skills required for success on the state-mandated assessment. Students are exposed to various genres including: fables, myths, tall tales, and legends. Skills and concepts are based on the student's individual education program (IEP).

ENGLISH I ALTERNATE Credit: 1 Grade: 9 Length: 36 weeks, Prerequisite: ARD Placement

This course is designed to enhance students' understanding of language and literature through the development of study skills, spelling and vocabulary, reading and listening comprehension skills, grammar and usage, and skills required for success on the state-mandated assessment. Students are exposed to various genres including: fables, myths, tall tales, and legends. Skills and concepts are based on the student's individual education program (IEP).

ENGLISH II Credit: 1 Grade: 10 Length: 36 weeks

Prerequisite: English I

This course focuses on continued development of critical reading and thinking skills through a variety of texts. English II's emphasis on writing includes incorporating grammatical structures to strengthen writing in the areas of narration and literary analysis. Students also learn research skills, SAT vocabulary words, and persuasive techniques.

ENGLISH II MODIFIED Credit: 1 Grade: 10 Length: 36 weeks Prerequisite: ARD placement

This course focuses on the continued development of reading, listening, and thinking skills related to language and literature. Students learn and practice skills related to punctuation, capitalization, spelling, vocabulary, prefixes, suffixes, roots, using parts of speech, and common English idioms. The class learns about the structure and content of short stories and practices writing skills. Skills and concepts are based on the student's individual education program (IEP).

ENGLISH II ALTERNATE Credit: 1 Grade: 9 Length: 36 weeks, Prerequisite: ARD Placement

This course focuses on the continued development of reading, listening, and thinking skills related to language and literature. Students learn and practice skills related to punctuation, capitalization, spelling, vocabulary, prefixes, suffixes, roots, using parts of speech, and common English idioms. The class learns about the structure and content of short stories and practices writing skills. Skills and concepts are based on the student's individual education program (IEP).

ENGLISH III Credit: 1 Grade: 11 Length: 36 weeks

Prerequisite: English II

This survey course of American Literature covers several philosophical time periods from Puritanism to contemporary literature. Process writing is emphasized, as well as critical reading and thinking skills. A research paper is required. The vocabulary program is SAT intensive. Preparation for the Exit-level TAKS is incorporated.

ENGLISH III MODIFIED Credit: 1 Grade: 11 Length: 36 weeks Prerequisite: ARD placement

This course is designed to help students further develop critical reading and writing skills and incorporate skills required for success on the state-mandated exit-level assessment. It also enhances students' understanding of language and literature through the study of poetry and nonfiction. Writing skills and concepts covered include idea development and elaboration, sentence and paragraph structure, grammar skills, and journal writing. Students continue to practice spelling and punctuation skills, and build vocabulary, including understanding analogies. Skills and concepts are based on the student's individual education program (IEP).

ENGLISH III ALTERNATE Credit: 1 Grade: 9 Length: 36 weeks, Prerequisite: ARD Placement

This course is designed to help students further develop critical reading and writing skills and incorporate skills required for success on the state-mandated exit-level assessment. It also enhances students' understanding of language and literature through the study of poetry and nonfiction. Writing skills and concepts covered include idea development and elaboration, sentence and paragraph structure, grammar skills, and journal writing. Students continue to practice spelling and punctuation skills, and build vocabulary, including understanding analogies. Skills and concepts are based on the student's individual education program (IEP).

ENGLISH IV Credit: 1 Grade: 12 Length: 36 weeks**Prerequisite: English III**

The central purpose of English IV is to cultivate the critical thinking, reading, writing, and oral skills required for students' post-graduation ambitions. English IV encourages students to become more reflective and to further develop their collaborative and independent study skills, their written and oral discourse, and their exploration and understanding of philosophical ideas. Students also gain a familiarity with British Literature as a body of work by examining how cultural influences have influenced the work of British authors.

ENGLISH IV MODIFIED Credit: 1 Grade: 12 Length: 36 weeks Prerequisite: ARD placement

English IV is designed to further develop the thinking, reading, writing, and oral skills required for students' post-graduation ambitions. English IV encourages students to become more reflective through the study and practice of personal narrative, autobiography, and the study of drama. The study of British Literature examines how cultural influences have influenced British authors. Students continue to develop expertise in both collaborative and independent study while practicing skills related to vocabulary, grammar, spelling, and punctuation. Students have opportunities to work on projects related to their specific post-graduation plans. Skills and concepts are based on the student's individual education program (IEP).

ENGLISH LANGUAGE ART ELECTIVES**READING I, II, and III Credit: 1 Grade: 9-12 Length: 36 weeks**

Reading I, II, and III offer students instruction in word recognition and comprehension strategies and vocabulary to ensure that high school students have an opportunity to read with competence, confidence, and understanding. Students are given opportunities to locate information in varied sources, to read critically, to evaluate sources, and to draw supportable conclusions. Students learn how various texts are organized and how authors choose language for effect. All of these strategies are applied in texts that cross the subject fields. For high school students whose first language is not English, the students' native language serves as a foundation for English language acquisition and language learning.

RESEARCH/TECHNICAL WRITING Credit: 1 Grade: 12 Length: 36 weeks

The study of technical writing allows high school students to earn one credit while developing skills necessary for writing persuasive and informative texts such as essays, reports, proposals, and memoranda. This rigorous composition course asks high school students to skillfully research a topic or a variety of topics and present that information through a variety of media. All students are expected to demonstrate an understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English. The student's evaluation of his/her own writing as well as the writing of others ensures that students completing this course are able to analyze and discuss published and unpublished pieces of writing, develop and apply criteria for effective writing, and set their own goals as writers.

CREATIVE WRITING credit: 1 Grade: 12 Length: 36 weeks

The study of creative writing allows high school students to earn one credit while developing versatility as a writer. Creative Writing, a rigorous composition course, asks high school students to demonstrate their skill in such forms

of writing such as fictional writing, short stories, poetry, and drama. All students are expected to demonstrate an understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English. The students' evaluation of their own writing as well as the writing of others ensures that students completing this course are able to analyze and discuss published and unpublished pieces of writing, develop peer and self-assessments for effective writing, and set their own goals as writers.

INDEPENDENT STUDY IN ENGLISH Credit: 0.5 to 1 Grade: 11-12 Length 18 or 36 weeks

Students enrolled in Independent Study in English write in a variety of forms for a variety of audiences and purposes. High school students are expected to plan, draft, and complete written compositions on a regular basis, and carefully examine their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English. Independent Study in English students are expected to write in a variety of forms including business, personal, literary, and persuasive texts for a variety of audiences and purposes. Writing is used as a tool for learning as students create, clarify, critique, and express appreciation for others' ideas and responses. In Independent Study in English, students evaluate their own written work as well as the work of others. Students continue to read extensively in increasingly difficult texts selected in multiple genres for a variety of purposes.

MATHEMATICS

Required Course	Course Code	Credit	4 th Year Course Options	Course Code	Credit
Algebra I	03100500	1.0	Math Models with Applications*	0312400	1.0
			MM with App Modified	0312400	1.0
Algebra I Modified	03100505	1.0	Mathematics Application in Agriculture, Food, and Natural Resources* (Business and Industry Endorsement)	13001000	1.0
Algebra I Alternate	03100507	1.0			
Geometry	03100700	1.0	Pre-Calculus	03101100	1.0
Geometry Modified	03100705	1.0	Independent Study in Mathematics **	03102500	1.0
Geometry Alternate	03100707	1.0			
Algebra II	03100600	1.0	Math Intervention I, II or III (Local Credit only)	84100010, 84100011, 84100012	
Algebra II Modified	03100605	1.0	Strategic Learning for HS Math (Elective)	N1110030	1.0
Algebra II Alternate	03100607	1.0			

**Math Models and Mathematics Application only count as a math credit if taken prior to Algebra 2. Both courses cannot count toward graduation.*

*** Independent Study must have prior principal and Curriculum Director approval*

ALGEBRA I Credit: 1 Grade: 9-12 Length: 36 weeks

The focus of Algebra 1 is on solving relevant and interesting problems and on applying algebraic principles in a variety of real-world situations. This course includes the study of the real number system, algebraic representations, solutions and evaluation of problem situations, graphing to interpret linear relations, functions and inequalities, quadratic equations, and polynomials.

ALGEBRA I MODIFIED Credit: 1 Grade: 9 Length: 36 weeks Prerequisite: ARD placement

This course is an introduction to basic algebraic concepts including problem solving using integers, order of operations, exponential notation, and properties and equations. Skills and concepts are based on each student's individual education program (IEP).

ALGEBRA I ALTERNATE Credit: 1 Grade: 9 Length: 36 weeks Prerequisite: ARD placement

This course is an introduction to basic algebraic concepts including problem solving using integers, order of operations, exponential notation, and properties and equations. Skills and concepts are based on each student's individual education program (IEP).

GEOMETRY Credit: 1 Grade: 9-12 Length: 36 weeks Prerequisite: Algebra 1

This course emphasizes the connection between Geometry and Algebra, strengthens the student's ability to formulate and analyze problems, and stresses connections among the various approaches within geometry: synthetic, coordinate, and transformational. Topics include axiomatic systems, lines, angles, triangles, circles, other polygons, solid geometry, and measurement.

GEOMETRY MODIFIED Credit: 1 Grade: 10 Length: 36 weeks Prerequisite: ARD placement

This course focuses on the fundamentals of geometry with emphasis on problem solving, and real life application of geometric concepts. Topics include angle measurement and relationships, triangles and congruence, parallel lines, quadrilaterals, similarity and scale, polygons and area, circles, space figures, and surface area/volume. Skills and concepts are based on each student's individual education program (IEP).

GEOMETRY ALTERNATE Credit: 1 Grade: 10 Length: 36 weeks Prerequisite: ARD placement

This course focuses on the fundamentals of geometry with emphasis on problem solving, and real life application of geometric concepts. Topics include angle measurement and relationships, triangles and congruence, parallel lines, quadrilaterals, similarity and scale, polygons and area, circles, space figures, and surface area/volume. Skills and concepts are based on each student's individual education program (IEP).

MATH MODELS WITH APPLICATIONS Credit: 1 Grade: 11-12 Length: 36 weeks Prerequisite: Geometry

This course instructs students in using algebraic, graphical, and geometric reasoning to recognize patterns and structure, to model information, and to solve problems from various disciplines. Students use a variety of representations (concrete, pictorial, numerical, symbolic, graphical, and verbal), along with tools and technology to link modeling techniques to purely mathematical concepts and to solve problems.

MATH MODELS WITH APPLICATIONS MODIFIED Credit: 1 Grade: 11-12 Length: 36 weeks Pre-requisite: ARD placement

This course is designed to teach students to use mathematical methods to model and solve real life applied problems. Topics include personal finance, probability, taxes, investing, and the connections among these to solve problems. Skills and concepts are based on each student's individual education program (IEP).

ALGEBRA II Credit: 1 Grade: 11-12 Length: 36 weeks Prerequisite: Geometry

This course focuses on the concepts of functions and relations, with emphasis on linear, quadratic, exponential, logarithmic, radical, and rational functions. The student applies algebraic concepts to a variety of real-world situations that can be modeled mathematically.

ALGEBRA II MODIFIED Credit: 1 Grade: 11-12 Length: 36 weeks Prerequisite: ARD placement

This course continues to build on the basic foundations and concepts of Basic Algebra 1 and includes the use of algebraic functions, graphing, and equations. Skills and concepts are based on each student's individual education program (IEP).

ALGEBRA II ALTERNATE Credit: 1 Grade: 11-12 Length: 36 weeks Prerequisite: ARD placement

This course continues to build on the basic foundations and concepts of Basic Algebra 1 and includes the use of algebraic functions, graphing, and equations. Skills and concepts are based on each student's individual education program (IEP).

PRE-CALCULUS Credit: 1 Grade: 11-12 Length: 36 weeks Prerequisite: Algebra II

This course extends the study of algebraic functions and their graphs including polynomials, rational, exponential, and logarithmic functions. Students also study trigonometric functions and inverses, identities and equations, as well as solve triangles and examine applications of trigonometric functions. In addition, students examine sequences and series, combinatorics, and vectors.

MATHEMATICS APPLICATION IN AGRICULTURE, FOOD AND NATURAL RESOURCES (MAAFN) Credit: 1.0 Grade: 11-12 Length: 36 weeks Prerequisite: Algebra I and Geometry

MAAFN may count for graduation credit in math if taken prior to Algebra 2. Students may not count both Mathematical Models and Mathematics Application as math credit.

Students apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for success, students are afforded opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts.

INDEPENDENT STUDY IN MATHEMATICS Credit: 0.5 to 1 Grade: 11-12 Length: 18 or 36 weeks Prerequisite: Algebra II and Geometry

Students may repeat this course with different course content for up to three elective credits. Only one may count for the required fourth Math credit. Students extend their mathematical understanding beyond the Algebra II level in a specific area or areas of mathematics, such as theory of equations, number theory, non-Euclidean geometry, advanced survey of mathematics, or history of mathematics.

STRATEGIC LEARNING FOR HS MATH Elective Credit: 0.5 to 1 Grade: 9-10 Length: 18 to 36 weeks

This course is intended to create strategic mathematical learners from underprepared mathematics students. The basic understandings stimulate students to think about their approach to mathematical learning. These basic

understandings include identifying errors in the teaching and learning process, input errors, physiological concerns and key cognitive skills. The essential knowledge and skills foster a deeper understanding of the task of learning mathematical concepts. Use of personal data and statistical analysis establish relevance and aid in creation of personalized learning goals.

MATH INTERVENTION I, II, or III Local Credit:

Does not count toward credits required for graduation.

This course emphasizes underlying computational and problem solving skills that are required to be successful in secondary mathematics courses. The course is taken in addition to the regularly scheduled Math course. It is designed to aid students in acquiring skills to pass the state assessment.

SCIENCE

Required Course	Course Code	Credit	Any listed Science course may be used as an Advanced Science Course	Course Code	Credit
Integrated Physics and Chemistry (IPC)	03060201	1.0	Environmental Systems	03020000	1.0
Integrated Physics and Chemistry Modified (IPC)	0306021	1.0	Environmental Systems Modified	03020000	1.0
Biology I	03010200	1.0	Aquatic Science	03030000	1.0
Biology I Modified	03010205	1.0	Advanced Plant and Soil Science (Business and Industry Endorsement)	13002100	1.0
Biology I Alternate	03010207	1.0	Advanced Animal Science (Business and Industry Endorsement)	13000700	1.0
Chemistry	03040000	1.0	Physics	03050000	1.0
Chemistry Modified	03040005	1.0	Physics Modified	03050005	1.0
Chemistry Alternate	03040007	1.0	Physics Alternate	03050007	1.0

INTEGRATED PHYSICS AND CHEMISTRY (IPC) Credit: 1 Grade: 9 Length: 36 weeks

This course is an exploration of natural phenomena related to Physics and Chemistry. Critical-thinking and scientific problem solving skills are emphasized while exploring concepts related to the properties of matter, chemical reactions, forces, motion, simple machines, heat, electricity, waves, sound, and light.

INTEGRATED PHYSICS AND CHEMISTRY MODIFIED (IPC) Credit: 1 Grade: 9 Length: 36 weeks

Prerequisite: ARD placement

This course provides the student with an operational understanding of basic physical science concepts. It includes a general introduction to Chemistry and Physics. The skills and concepts are based on each student’s individual education program (IEP).

BIOLOGY I Credit: 1 Grade: 9 or 10 Length: 36 weeks

This course describes the fascinating diversity of all living things and the identifying themes that bring order to this diversity. The Biology course includes the scientific processes of observation and analysis. Critical-thinking strategies are emphasized while exploring concepts related to cells, viruses, metabolism, genetics, living systems, taxonomy, and ecosystems. The student may conduct an individual research project as a requirement of the course.

BIOLOGY I MODIFIED Credit: 1 Grade: 9 or 10 Length: 36 weeks Prerequisite: ARD placement

This course primarily covers the study of life. It is designed to expand a student’s knowledge of cells, genetics and taxonomy of living organisms, ecology, evolution, and health. The skills and concepts are based on each student’s individual education program (IEP).

BIOLOGY I ALTERNATE Credit: 1 Grade: 9 or 10 Length: 36 weeks Prerequisite: ARD placement

This course primarily covers the study of life. It is designed to expand a student’s knowledge of cells, genetics and taxonomy of living organisms, ecology, evolution, and health. The skills and concepts are based on each student’s individual education program (IEP).

Approved Advanced Science Options

AFTER successful completion of Biology, and IPC, a student may select the third and/or fourth required credit from any of the following science course offerings for the Foundation and +Endorsements High School Graduation Plans.

CHEMISTRY Credit: 1 Grade: 10-12 Length: 36 weeks

Prerequisite: Biology and Geometry or concurrent enrollment

Chemistry is an exploration of matter and the changes that it undergoes. Critical-thinking and scientific problem solving skills are developed in the study of the characteristics of matter, chemical reactions, energy transformations, atomic structure, periodicity, gas behavior, bonding, nuclear chemistry, properties of solutions, and acid-base chemistry. An emphasis is placed upon chemical calculations and the mathematical formulation of principles.

CHEMISTRY MODIFIED Credit: 1 Grade: 10-12 Length: 36 weeks Prerequisite: ARD placement

Chemistry is an exploration of matter and the changes that it undergoes. This course includes labs, chemical calculations using math skills, and problem solving to solve chemistry applications. The skills and concepts are based on each student's individual education program (IEP).

CHEMISTRY ALTERNATE Credit: 1 Grade: 10-12 Length: 36 weeks Prerequisite: ARD placement

Chemistry is an exploration of matter and the changes that it undergoes. This course includes labs, chemical calculations using math skills, and problem solving to solve chemistry applications. The skills and concepts are based on each student's individual education program (IEP).

PHYSICS Credit: 1 Grade: 11-12 Length: 36 weeks

Prerequisite: Biology and either IPC or Chemistry; Algebra 2 or concurrent enrollment

Physics is an exploration of the laws of motion; changes within physical systems; conservation of energy and momentum; force; characteristics and behavior of sound and light waves; electricity; and magnetism. Throughout the course there are various hands-on projects showing practical use of the theoretical topics covered in class.

PHYSICS MODIFIED Credit: 1 Grade: 11-12 Length: 36 weeks

Prerequisite: ARD Placement

Physics is an exploration of the laws of motion; changes within physical systems; conservation of energy and momentum; force; characteristics and behavior of sound and light waves; electricity; and magnetism. Throughout the course there may be various hands-on projects showing practical use of the theoretical topics covered in class. The skills and concepts are based on each student's individual education program (IEP).

PHYSICS ALTERNATE Credit: 1 Grade: 11-12 Length: 36 weeks

Prerequisite: ARD Placement

Physics is an exploration of the laws of motion; changes within physical systems; conservation of energy and momentum; force; characteristics and behavior of sound and light waves; electricity; and magnetism. Throughout the course there are various hands-on projects showing practical use of the theoretical topics covered in class. The skills and concepts are based on each student's individual education program (IEP).

ENVIRONMENTAL SYSTEMS Credit: 1 Grade Level: 11-12 Length: 36 weeks

Prerequisite: Completion of Biology and Chemistry OR completion of Biology, IPC, and concurrent enrollment in Chemistry.

In this course, students conduct field and laboratory investigations and use scientific problem-solving as they study a variety of topics, including biotic and abiotic factors in habitats; ecosystems and biomes; interrelationships among resources and environmental systems; sources and flow of energy through an environmental system; the relationship between carrying capacity and changes in populations and ecosystems; and changes in environments.

ENVIRONMENTAL SYSTEMS MODIFIED Credit: 1 Grade: 11-12 Length: 36 weeks

Prerequisite: ARD placement

This course provides students with an overall understanding of environmental topics such as recycling, ecosystems, earth history, and global changes. This course includes many hands-on laboratory/field investigations such as participating in the school recycling program. The skills and concepts are based on each student's individual education program (IEP).

AQUATIC SCIENCE Credit: 1 Grade: 11-12 Length: 36 weeks

Prerequisite: Completion of Biology and Chemistry OR completion of Biology, IPC, and concurrent enrollment in Chemistry.

This course is especially well suited for those students interested in pursuing a science related field in college. The course includes in-depth study of aquatic organisms and their interrelationships, water chemistry, marine biology & oceanography, geology & paleontology, coral reefs and estuarine environments. The course offers many readings from college level textbooks and publications.

ADVANCED ANIMAL SCIENCE Credit: 1 Grade: 12 Length: 36 weeks

Prerequisite: Completion of Biology, Chemistry, and Physics.

Students attain academic skills and knowledge related to animal systems; develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. Students are given opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences.

ADVANCED PLANT AND SOIL SCIENCE Credit: 1 Grade: 12 Length: 36 weeks

Prerequisite: Completion of Biology, Chemistry, and Physics.

Plant and Soil Science provides a way of learning about the natural world. Students learn how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. The course includes investigations, laboratory practices, and field exercises to develop an understanding of current plant and soil science. The course is designed to prepare students for careers in the food and fiber industry. Students learn, reinforce, apply, and transfer their knowledge in a scientific setting.

SOCIAL STUDIES

Required Course	Course Code	Credit	Elective Options	Course Code	Credit
World Geography	03320100	1.0	Special Topics in SS I (Civil War) CBI	03380002	0.5
World Geography Modified	03320105	1.0	Special Topics in SS II (Vietnam War) CBI	03380022	0.5
World Geography Alternate	03320107	1.0	Special Topics in SS III (Twentieth Century American History) CBI	03380032	0.5
World History	03340400	1.0	Sociology AH only	03370100	0.5
World History Modified	03340405	1.0	Psychology (CBI only)	03370100	0.5
World History Alternate	03340407	1.0			
US History	03340100	1.0	Principles of Government and Public Administration (Public Services Endorsement)	13018200	1.0
US History Modified	03340105	1.0	Political Science I	13028300	1.0
US History Alternate	03340107	1.0			
US Government	03330100	1.0	World History/Geography Studies **		1.0
US Government Modified	03330100	1.0			
Economics with Emphasis on the Free Enterprise System	03310300	1.0	Economics Modified	03310300	1.0

WORLD GEOGRAPHY Credit: 1 Grade: 9 Length: 36 weeks

This course deals with the earth as the world of living things. The course offers an understanding of the way people live in particular places and why they live as they do. World Geography explores the physical and cultural features of the earth, changing earth resources, people and the land, political boundaries, economic growth, and technological change. Current events are emphasized. Geographic concepts are explored along with a regional study of Latin America, Europe, Russia, Asia, Africa, and the Middle East.

WORLD GEOGRAPHY MODIFIED Credit: 1 Grade: 9 Length: 36 weeks Prerequisite: ARD placement

This course is designed to provide a basic understanding of World Geography. It includes the study of and exposure to basic geographical terms, map skills, physical and cultural geography, and the existence of a global society. It also includes the study of human impact on the environment as well as geographic influences on culture and on global economic and political systems. The skills and concepts are based on each student's individual education program (IEP).

WORLD GEOGRAPHY ALTERNATE Credit: 1 Grade: 9 Length: 36 weeks Prerequisite: ARD placement

This course is designed to provide a basic understanding of World Geography. It includes the study of and exposure to basic geographical terms, map skills, physical and cultural geography, and the existence of a global society. It also includes the study of human impact on the environment as well as geographic influences on culture and on global economic and political systems. The skills and concepts are based on each student's individual education program (IEP).

WORLD HISTORY Credit: 1 Grade: 10 Length: 36 weeks

This course provides students with a greater understanding and knowledge of important historical events from the Paleolithic Age to Post World War II. Students focus on patterns of growth and decline in civilizations as well as cultural, technological, and sociological advancements. The emphasis is on Western thought and culture, but attention is also given to historical development of the non-western world. The first half includes prehistory to the Renaissance. The second half includes the Rise of Monarchs to post WW II.

WORLD HISTORY MODIFIED Credit: 1 Grade: 10 Length: 36 weeks Prerequisite: ARD placement

World History is a study of man's development from pre-history to the current day. Each unit includes general characteristics of a time period, an analysis of one or two sample cultures, and a study of associated people and events. The skills and concepts are based on each student's individual education program (IEP).

WORLD HISTORY ALTERNATE Credit: 1 Grade: 10 Length: 36 weeks Prerequisite: ARD placement

World History is a study of man's development from pre-history to the current day. Each unit includes general characteristics of a time period, an analysis of one or two sample cultures, and a study of associated people and events. The skills and concepts are based on each student's individual education program (IEP).

UNITED STATES HISTORY Credit: 1 Grade: 11 Length: 36 weeks

This course examines the people and events of post Reconstruction America to the present. The various contributions from the members of our multicultural society, and the reform movements throughout historical periods are emphasized. The study of United States History includes primary source documents as well as factual knowledge. Instruction includes a historical review unit.

UNITED STATES HISTORY MODIFIED Credit: 1 Grade: 11 Length: 36 weeks Prerequisite: ARD placement

This course is designed to provide a basic understanding of U.S. history since Reconstruction. It includes the study of industrialization and urbanization, major wars, domestic and foreign policies, and the Great Depression. The skills and concepts are based on each student's individual education program (IEP).

UNITED STATES HISTORY ALTERNATE Credit: 1 Grade: 11 Length: 36 weeks Prerequisite: ARD placement

This course is designed to provide a basic understanding of U.S. history since Reconstruction. It includes the study of industrialization and urbanization, major wars, domestic and foreign policies, and the Great Depression. The skills and concepts are based on each student's individual education program (IEP).

UNITED STATES GOVERNMENT Credit: 0.5 Grade: 12 Length: 18 weeks Prerequisite: US History.

This course aims to familiarize the students with the American political process as well as its framework, traditions, and values. Students study the foundations of American government, federalism, the three branches of government, political behavior, and state government. Current events are important to the development of the course. The students are expected to gain a better understanding of the individual's role as a citizen and voter.

UNITED STATES GOVERNMENT MODIFIED Credit: 0.5 Grade: 12 Length: 18 weeks Prerequisite: ARD placement

This course surveys the American political system beginning with the events leading to the adoption of the Constitution. The major units include constitutional principles, political parties, political participation, and the legislative, executive, and judicial branches of government. The skills and concepts are based on each student's individual education program (IEP).

ECONOMICS WITH EMPHASIS ON THE FREE ENTERPRISE SYSTEM Credit: 0.5 Grade: 12 Length: 18 weeks Prerequisite: US History

This course emphasizes the free enterprise system and its benefits. Areas of concentration include the elements of the American free enterprise system, the role of government in the American economic system, the relationship of the American economic system to international economic activity, and consumer economics. The course emphasizes the practical aspects of economic knowledge necessary for a career and an understanding of contemporary economic issues.

ECONOMICS MODIFIED Credit: 0.5 Grade: 12 Length: 18 weeks Prerequisite: ARD placement

This course is designed to provide a basic understanding of America's economic system. It includes the study of the fundamental concepts of free enterprise, profit motive, competition, fiscal policies, and the role of government in individual's lives. Current economic topics, problems, and potential solutions are also included. The skills and concepts are based on each student's individual education program (IEP).

SPECIAL TOPICS IN SS I (CIVIL WAR) Credit: 0.5 Grade: 10-12 Length: 18 wks Elective Credit

This CBI course focuses on the Civil War including the pre-war years, the early years, the turning point for the war, the war in the South, and the reconstruction of a nation. The student differentiates between, locates, and uses primary and secondary sources such as computer software, databases, media and news services, biographies, interviews, and artifacts to acquire information about the Civil War. The student analyzes information by sequencing, categorizing, identifying cause-and-effect relationships, comparing, contrasting, finding the main idea, summarizing, making generalizations and predictions, and drawing inferences and conclusions.

SPECIAL TOPICS IN SS II (VIETNAM ERA) Credit: 0.5 Grade: 10-12 Length: 18 wks Elective Credit

This CBI course examines the origin of the U.S. involvement in the Vietnam War. Students compare and contrast military advisors and combat troops, study the nation divided by the war, learn about achieving peace, and examine the overall legacy of Vietnam.

SPECIAL TOPICS IN SS III (TWENTIETH CENTURY AMERICAN HISTORY) Credit: 0.5 Grade: 10-12 Length: 18 weeks Elective Credit only

In this CBI course students examine American history during the Industrial Revolution, the participation in WW I and II, the Great Depression, the Cold War, and the changes that have shaped and molded our country.

SOCIOLOGY Credit: 0.5 Grade: 11-12 Length: 18 weeks (CBI)

Sociology, an elective course, is an introductory study in social behavior and organization of human society. This course describes the development of the field as a social science by identifying methods and strategies of research leading to an understanding of how the individual relates to society and the ever changing world. Students also learn the importance and role of culture, social structure, socialization, and social change in today's society.

PSYCHOLOGY Credit: 0.5 Grade: 11-12 Length: 18 weeks (CBI)

In Psychology, an elective course, students consider the development of the individual and the personality. The study of psychology is based on an historical framework and relies on effective collection and analysis of data. Students study topics such as theories of human development, personality, motivation, and learning. This course is offered as CBI only.

PRINCIPLES OF GOVERNMENT AND PUBLIC ADMINISTRATION Credit: 1.0 Grade: 11-12 Length: 36 weeks

Government and Public Administration introduce students to foundations of governmental functions and career opportunities within the United States. Students will examine governmental documents such as the United States Constitution and the Bill of Rights.

POLITICAL SCIENCE I Credit: 1.0 Grade: 11-12 Length: 36 weeks

Political Science will familiarize the student with political theory through the study of governments; public policies; and political processes, systems, and behavior.

POLITICAL SCIENCE II Credit: 1.0 Grade: 11-12 Length: 36 weeks

Political Science II will involve more in depth political theory through the study of governments; public policies; and political processes, systems, and behavior.

UT-UCS ~ Coherent Sequences and Endorsements for Graduation Plan

With the *Foundations + Endorsements*, students are not required to select only one endorsement; however they are encouraged to pursue courses in a coherent sequence to fully experience the depth of an area of study. While some sequences are inherently aligned due to prerequisites, other areas have various courses for students to choose from.

Business and Industry Endorsement

A coherent sequence of four or more credits of at least two courses in the same career cluster including at least one advanced CTE course, which includes any course that is the third or higher course in a sequence. The final course in the sequence must be obtained from one of the CTE career clusters listed in the following:

* Denotes Advanced course for sequence ** Denotes course not yet offered

Agriculture, Food, and Natural Resources

Program of Study in Agribusiness Systems

Principles of Agriculture, Food, and Natural Resources (OW, MCH)

* Professional Standards in Agribusiness (MCH)**

* Agribusiness Management & Marketing (OW, MCH)**

* Mathematical Applications in AFNR (All campuses through Math department)**

* Practicum in AFNR (MCH)

Program of Study in Plant Systems

Principles of Agriculture, Food, and Natural Resources (OW, MCH)

Principles and Elements of Floral Design (MCH)

Horticultural Science (OW)

Landscape Design and Turf Management (MCH)**

* Advanced Plant & Soil Science (all campuses through Science department)**

* Practicum in AFNR (MCH)

Program of Study in Animal Systems

Principles of Agriculture, Food, and Natural Resources (OW, MCH)

Small Animal Management/Livestock Production (MCH)

* Advanced Animal Science (All campuses through Science department)**

* Practicum in AFNR (MCH)

Program of Study in Natural Resources

Principles of Agriculture, Food, and Natural Resources (OW, MCH)

Wildlife, Fisheries, and Ecology Management (MCH)**

* Range Ecology and Management (MCH)**

* Forestry and Woodland Ecosystems (MCH)**

* Advanced Plant and Soil Science (All campuses through Science department)**

Program of Study in Biotechnology

Principles of Agriculture, Food, and Natural Resources (OW, MCH)

Energy and Natural Resources Technology **

* Advanced Environmental Technology**

* Advanced Plant and Soil Science (All campuses through Science department)**

*Practicum in AFNR

Manufacturing

Program of Study in Production

Principles of Manufacturing (MCH via TSTC)

Welding (MCH or MCH via TSTC)

* Advanced Welding (MCH or MCH via TSTC)

* Practicum in Manufacturing I (MCH via TSTC)

* Practicum in Manufacturing II (MCH via TSTC)

Business, Marketing, and Finance

Program of Study in Business Administration

Principles of Business, Marketing, and Finance (OW and MCH)

Touch Systems Data Entry (MCH)

Dollars and Sense (MCH, TNC, AH, SH and OW)

Business Information Management I A and I B (OW)

* Entrepreneurship (OW)

* Business Law (OW)

* Agribusiness Management and Marketing (OW and MCH)**

* Practicum in Business Management (TBD)**

Program of Study in Finance

Principles of Business, Marketing, and Finance (OW and MCH)

Dollars and Sense (MCH, TNC, AH, SH and OW)

* Accounting I (MCH via MCC)

* Statistics & Risk Management (4th Math credit)**

Information Technology

Program of Study in Information Technology

Principles of Information Technology (OW)

Telecommunications and Networking (OW)

Digital and Interactive Media**

*3rd and 4th year courses offered through Texas State Technical College at Waco (TSTC)

Public Services Endorsement

A coherent sequence of courses for 4 or more credits in CTE that consists of at least 2 courses in the same cluster including at least 1 advanced CTE course which includes any course that is the 3rd or higher course in a sequence. The final course in the sequence must be selected from one of the following CTE career clusters:

Program of Study in Human Services

Principles of Human Services (OW, AH and SH)

Dollars and Sense (OW, AH, SH, MCH, TNC)

any program of study of sequence

Interpersonal Studies (OW, AH, and SH)

* Child Guidance (AH and SH)

* Parenting for School Age Parents I and II (AH)

* Practicum in Human Services (AH and SH)

Program of Study in Hospitality and Tourism

Principles of Hospitality and Tourism (OW)

Hotel Management (OW)

Restaurant Management (OW)

*Additional Courses in this sequence are offered through TSTC

Program of Government and Public Administration
Principles of Government and Public Administration
(Social Studies department)**

*Political Science I (SS department)**

*Political Science II (SS department)**

Program of Study in Health Science

Principles of Health Science (OW)

Medical Terminology (MCH via MCC)

*Anatomy and Physiology (MCH via MCC)

*Practicum in Health Science (MCH via MCC)

Lifetime Nutrition and Wellness (AH and SH) can be added to any of the above sequences

*Food Science (4th Science Credit) can be added to above or Agriculture sequence**

Arts and Humanities Endorsement

A student may earn an Arts & Humanities endorsement by completing foundation and general endorsement requirements and:

- (A) A total of 5 social studies CREDITS
- (B) 4 levels of the same language in a language other than English
- (C) 2 levels of the same language in a language other than English and 2 levels of a different language in a language other than English
- (D) 4 levels of American sign language
- (E) A coherent sequence of 4 credits by selecting courses from 1 or 2 categories or disciplines in fine arts or innovative courses approved by the commissioner
- (F) 4 English elective credits by selecting from the following:
 - English IV
 - Independent Study in English (must be approved by C and I director)
 - Creative Writing
 - Research and Technical Writing
 - Communications Applications (OW) (must combined with 0.5 credits of a course listed above)

Science Technology Engineering and Math (STEM) Endorsement

A student may earn a STEM endorsement by completing foundation and general endorsement requirements and:

- (A) A coherent sequence of courses for 4 or more credits in CTE that consists of at least 2 courses in the same career cluster including at least one advanced CTE course which includes any course that is the 3rd or higher course in a sequence. The courses **may be selected from all CTE career clusters** or CTE innovative courses approved by the commissioner of education. The final course in the sequence must be selected from the STEM career cluster.
- (B) a coherent sequence of 4 credits in computer science
- (C) A total of 5 credits in math by successfully completing Algebra I, geometry, Algebra II and 2 additional math courses for which Algebra II is a prerequisite
- (D) A total of 5 credits in science by successfully completing biology, chemistry, physics, and 2 additional science courses
- (E) In addition to Algebra II, chemistry, and physics, a coherent sequence of 3 additional credits from no more than 2 of the areas listed in (A), (B), (C), and (D).

Multidisciplinary Endorsement

A student may earn a Multidisciplinary Studies endorsement by completing foundation and general endorsement requirements and:

- (A) 4 advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation from within 1 endorsement area or among endorsement areas that are not in a coherent sequence
- (B) 4 credits in each of the four foundation subject areas to include English IV and chemistry and/or physics
- (C) 4 credits in AP, IB, or dual credit selected from English, math, science, social studies, economics, LOTE, or fine arts

GENERAL ELECTIVES CAREER AND TECHNICAL EDUCATION

Business and Industry Endorsement

PROGRAM OF BUSINESS MANAGEMENT AND ADMINISTRATION

Course	Course Code	Campus	Credit
Principles of Business, Marketing, and Finance	13011200	MCH only	1.0
Touch System Data Entry	13011300	MCH only	1.0
Business Information Management I	13011400	MCH only	1.0
Business Information Management II	13011500	MCH only	1.0

PRINCIPLES OF BUSINESS, MARKETING, AND FINANCE Credit: 1 Grade: 9-12 Length: 36 weeks

Principles of Business, Marketing, & Finance is an introductory course for students to gain knowledge and skills in economics and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business.

TOUCH SYSTEM DATA ENTRY Credit: 1 Grade: 9-12 Length: 36 weeks

Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students apply touch system data entry for production of business documents.

BUSINESS INFORMATION MANAGEMENT I Credit: 1 Grade: 9-12 Length: 36 weeks

Recommended Prerequisite: Touch Systems Data Entry

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

BUSINESS INFORMATION MANAGEMENT II Credit: 1 Grade: 9-12 Length: 36 weeks

Prerequisite: Business Information Management I

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, and develop sophisticated spreadsheets using charts and graphs, and make electronic presentations using appropriate multimedia software.

PROGRAM OF ARCHITECTURE AND CONSTRUCTION

Course	Course Code	Campus	Credit
Principles of Architecture and Construction	13004200	MCH, PW	1.0
Construction Technology	13005100	MCH, PW	1.0
Construction Management	13004900	MCH, PW	1.0

PRINCIPLES OF ARCHITECTURE AND CONSTRUCTION Credit: 1 Grade: 9-12 Length: 36 weeks

This is an intensive introductory course in architecture that assumes no prior study in the field, but rather a great familiarity of the subject through the experience of occupying different places. Through a series of individual studio design projects, the class introduces students to many important aspects of architecture and encourages personal exploration. The identity of place – what it feels like and what it means to us – arises from qualities that are both visual and non-visual. Under that premise, the class encourages design solutions that are grounded in investigations of experience and perception.

CONSTRUCTION TECHNOLOGY Credit: 1 Grade: 9-12 Length: 36 weeks

Prerequisite: Principles of Architecture and Construction

In Construction Technology, students gain knowledge and skills specific to those needed to enter the work force as carpenters or building maintenance supervisors or prepare for a postsecondary degree in construction management,

architecture, or engineering. Students acquire knowledge and skills in safety, tool usage, building materials, codes, and framing.

CONSTRUCTION MANAGEMENT Credit: 1 Grade: 9-12 Length: 36 weeks

Prerequisite: Principles of Architecture and Construction

In Construction Management, students gain knowledge and skills specific to those needed to enter the work force as carpenters or building maintenance supervisors or prepare for a postsecondary degree in construction management, architecture, or engineering. Students acquire knowledge and skills in safety, tool usage, building materials, codes, and framing.

PROGRAM OF AGRICULTURE, FOOD AND NATURAL RESOURCES

Course	Course Code	Campus	Credit
Principles of Agriculture, Food, and Natural Resources	13000200	MCH, PW, TNC	1.0
Wildlife, Fisheries and Ecology Management	13001500	MCH, PW	1.0
Livestock Production	13000300	MCH, PW	1.0
Small Animal Management	13000400	MCH, PW	1.0
Advanced Animal Science	13000700	MCH, PW	1.0
Agricultural Mechanics and Metal Technologies	13002200	MCH, PW	1.0
Agricultural Facilities Design and Fabrication	13002300	MCH, PW	1.0
Agribusiness Management and Marketing	13000900	MCH, PW, TNC	1.0
Horticulture Science	13002000	MCH, PW, TNC	1.0
Landscape Design and Turf Grass Management	13001900	PW, TNC	1.0
Advanced Plant and Soil Science	13002100	MCH, PW	1.0
Principles and Elements of Floral Design	13001800	MCH, TNC	1.0
Welding	13032300	MCH only	1.0
Advanced Welding	13032400	MCH only	1.0
Practicum in Agriculture, Food, and Natural Resources	13002500	MCH	1.0 to 2.0

PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES Credit: 1 Grade: 9-12 Length: 36 weeks

This course is a comprehensive course designed to enhance understanding of the agriculture industry. Students develop technical knowledge and skills related to plant and animal systems, food production, mechanical systems, entrepreneurship, leadership, and environmental sciences.

WILDLIFE, FISHERIES, AND ECOLOGY Credit: 1 Grade: 10-12 Length: 36 weeks

Prerequisite: Principles of Agriculture, Food, and Natural Resources

This course is designed to examine the importance of wildlife and outdoor recreation by emphasizing the sound management of wildlife and all natural resources. In Wildlife & Recreation Management, the student may participate in Texas Parks & Wildlife Department’s education programs in hunter safety, boater safety or angler education online.

ADVANCED PLANT AND SOIL SCIENCE Credit: 1 Grade: 12 Length: 36 weeks

Prerequisite: completion of Biology, Chemistry, and Physics (May only count for Science credit if teacher is dual certified)

Plant and Soil Science provides a way of learning about the natural world. Students learn how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. The course includes investigations, laboratory practices, and field exercises to develop an understanding of current plant and soil science. The course is designed to prepare students for careers in the food and fiber industry. Students learn, reinforce, apply, and transfer their knowledge in a scientific setting.

AGRIBUSINESS MANAGEMENT AND MARKETING Credit: 1 Grade: 10-12 Length: 36 weeks

Prerequisite: Principles of Agriculture, Food, and Natural Resources

Students attain academic skills and knowledge, acquire technical knowledge and skills related to agribusiness marketing and management and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students are afforded opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. The course is designed to provide a foundation to agribusiness management and the free enterprise system. Instruction includes the use of economic principles such as supply and demand,

budgeting, record keeping, finance, risk management, business law, marketing, and careers in agribusiness.

HORTICULTURE SCIENCE Credit: 1 Grade: 9-12 Length: 36 weeks

Prerequisite: Principles of Agriculture, Food, and Natural Resources

In order to be prepared for careers in horticultural systems, students attain academic skills and knowledge, acquire technical knowledge and skills related to horticulture and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students are afforded opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings. The course is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production. The student identifies structures and physiological processes used in plant production. The student manages and controls common pests of horticultural plants. The student demonstrates marketing and management skills used in the operation of horticultural businesses.

LANDSCAPE DESIGN AND TURF GRASS MANAGEMENT Credit: 1 Grade: 9-12 Length: 36 weeks Prerequisite: Principles of Agriculture, Food, and Natural Resources

In preparation for a career in horticultural systems, students attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings. The course is designed to develop an understanding of landscape and turf grass management techniques and practices. The student learns the employability skills of a successful employee in the modern workplace. The student analyzes the cost and maintenance of tools, equipment, and structures used in the landscape industry.

PRINCIPLES AND ELEMENTS OF FLORAL DESIGN Credit: 1 Grade: 9-12 Length: 36 weeks

Prerequisite: Principles of Agriculture, Food, and Natural Resources (may only count for Fine Art credit if teacher is certified in Art)

Floral Design and Interior Landscape Development is a specialized course that prepares and familiarizes students with the field of floral design and interior landscape development. The student designs and produces floral arrangements and wreaths utilizing fresh-cut, dried and/or permanent floral materials. To be prepared for careers in floral design, students attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students learn, reinforce, apply and transfer their knowledge and skills and technologies in a variety of settings. The course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students develop respect for the traditions and contributions of diverse cultures. Students respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations.

LIVESTOCK PRODUCTION/EQUINE SCIENCE/SMALL ANIMAL MANAGEMENT Credit: 1 Grade: 10-12 Length: 36 weeks

Prerequisite: Principles of Agriculture, Food, and Natural Resources

Students study animal anatomy and physiology related to nutrition, reproduction, health, and management of domesticated animals; identify nutritional requirements of ruminant and non-ruminant animals; and discuss animal genetics, reproduction, animal pests and diseases, and traditional and current issues in animal science and livestock production. The student evaluates current topics in animal rights and animal welfare.

ADVANCED ANIMAL SCIENCE Credit: 1 Grade: 12 Length: 36 weeks

Prerequisite: Completion of Biology, Chemistry, and Physics (May only count for Science credit if teacher is dual certified)

Students attain academic skills and knowledge related to animal systems, and develops knowledge and skills regarding career opportunities, entry requirements, and industry standards. Students are given

opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences.

AGRICULTURAL MECHANICS AND METAL TECHNOLOGIES Credit: 1 Grade: 10-12 Length: 36 weeks Prerequisite: Principles of Agriculture, Food, and Natural Resources

Agricultural Mechanics and Metal Technology is designed to introduce career opportunities in the agricultural power, structural, and technical systems. Skills studied include an understanding of agricultural mechanics as it relates to safety and skills in tool operations, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques of welding and metal fabrication.

AGRICULTURAL FACILITIES DESIGN AND FABRICATION Credit: 1 Grade: 11-12 Length: 36 weeks

Prerequisite: Agricultural Mechanics and Metal Technologies

Agricultural Facilities Design and Fabrication builds upon the principles and concepts acquired in Agricultural Mechanics. The course prepares students for careers in mechanized agriculture and technical systems. Instruction is primarily in the shop laboratory and outdoors where hands-on activities can be practiced.

WELDING I and II Credit: 1 to 2 Grade: 10-12 Length: 36 weeks

Prerequisite: Principles of Agriculture, Food, and Natural Resources or Agricultural Mechanics and Metal Technologies

Rapid advances in technology have created new career opportunities and demands in many industries. Welding provides the knowledge, skills, and technologies required for employment in metal technology systems. Students develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.

PRACTICUM IN AGRICULTURE, FOOD, AND NATURAL RESOURCES Credit 1 or 2: Grade 12 Length: 36 weeks

Prerequisite: at least 2 years in the Agriculture, Food and Natural Resources Coherent Sequence

The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories.

PROGRAM OF INFORMATION TECHNOLOGY

Course	Course Code	Campus	Credit
Principles of Information Technology	13027200	MCH	1.0
Digital and Interactive Media	13027800	MCH	1.0

PRINCIPLES OF INFORMATION TECHNOLOGY Credit 1: Grade: 9-12 Length: 36 weeks

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

DIGITAL AND INTERACTIVE MEDIA Credit: 1 Grade: 10-12 Length: 36 weeks

Prerequisite: Principles of Information Technology

Through the study of digital and interactive media and its application in information technology, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students enhance reading, writing, computing, communication, and critical thinking and apply them to the information technology environment

Science, Technology, Engineering and Mathematics (STEM) Endorsement

PROGRAM OF SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

Course	Course Code	Campus	Credit
Concepts of Engineering and Technology	13036200	On Hold	1.0
Engineering Design and Presentation	13036500	On Hold	1.0

CONCEPTS OF ENGINEERING AND TECHNOLOGY Credit: 1 Grade: 9-10 Length: 36 weeks

Concepts of Engineering and Technology provide an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students use a variety of computer hardware and software applications to complete assignments and projects. Upon completion, students have an understanding of the various fields and are able to make informed decisions regarding a coherent sequence of subsequent courses.

ENGINEERING DESIGN AND PRESENTATION Credit: 1 to 2 Grade: 10-12 Length: 36 weeks

Prerequisite: Concepts of Engineering & Technology.

Students enrolled in this course demonstrate the knowledge and skills of the process of design as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas.

Public Services Endorsement.

PROGRAM OF HUMAN SERVICES

Course	Course Code	Campus	Credit
Principals of Human Services	13024200	SH, AH	1.0
Dollars and Sense (Personal Financial Literacy OW)	13024300	SH, AH (CBI: All campuses)	.5 to 1.0
Interpersonal Studies (Personal and Family Living OW)	13024400	SH, AH (CBI: All campuses)	1.0
Child Development	13024600	SH, AH	1.0
Child Guidance	13024800	AH	1.0
Lifetime Nutrition and Wellness	13024500	SH, AH	1.0
Practicum in Human Services	13025000	SH, AH	1.0 to 2.0
Parenting Education for School Age Parents I and II	N1302536	AH	1.0
Principles of Hospitality and Tourism (CBI)	13022200	CBI	1.0
Hotel Management (CBI)	13022300	CBI	1.0
Restaurant Management (CBI)	13022400	CBI	1.0

PRINCIPLES OF HUMAN SERVICES Credit: 1 Grade: 9-12 Length: 36 weeks

This laboratory course enables students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.

DOLLARS AND SENSE Credit: 1 Grade: 10-12 Length: 36 weeks (OW title, Personal Financial Literacy)

Prerequisite: Principles of Human Services

The course Dollars and Sense focuses on consumer practices and responsibilities, the money management process, decision-making skills, impact of technology, and preparation for human services careers. Students review and create a budget including wages, living expenses, and prioritizing needs versus wants. The course is offered in Odyssey Ware as Personal Financial Literacy.

INTERPERSONAL STUDIES Credit: 1 Grade: 10-12 Length: 36 weeks (OW title, Personal and Family Living)

Prerequisite: Principles of Human Services. The course examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family

studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services. The course is offered in Odyssey Ware as Personal and Family Living.

LIFETIME NUTRITION AND WELLNESS Credit: 1 Grade: 10-12 Length: 36 weeks

Prerequisite: Principles of Human Services

The course allows students to use principles of lifetime wellness and nutrition to make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences.

CHILD DEVELOPMENT Credit: 1 Grade: 10-12 Length: 36 weeks

Prerequisite: Principles of Human Services

This technical laboratory course addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

CHILD GUIDANCE Credit: 1 Grade: 9-12 Length: 36 weeks

Prerequisite: Child Development

This technical laboratory course addresses the knowledge and skills related to child growth and guidance equipping students to develop positive relationships with children and effective caregiver skills. Students use these skills to promote the well-being and healthy development of children, strengthen a culturally diverse society, and pursue careers related to the care, guidance, and education of children, including those with special needs. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

PRACTICUM IN HUMAN SERVICES Credit: 1 to 2 Grade: 11-12 Length: 36 weeks

Prerequisite: Principles of Human Services

Practicum in Human Services provides occupationally specific training and focuses on the development of consumer services, early childhood development and services, counseling and mental health services, and family and community service careers. Content for Practicum in Human Services is designed to meet the occupational preparation needs and interests of students and is based upon the knowledge and skills selected from two or more courses in a coherent sequence in the human services cluster. Instruction is delivered through school-based laboratory training or through work-based delivery arrangements such as cooperative education, mentoring, and job shadowing.

PARENTING EDUCATION FOR SCHOOL AGE PARENTS I AND II Credit: 1 Grade: 9-12 Length: 36 weeks

This is an innovative course designed for students who may have already become parents. Students learn parenting skills, time management and childhood development, and examine the services offered for teenage parents.

FINE ARTS

Course	Course Code	Campus	Credit
Art I	03500100	MCH, SH, PF, TNC, MAC	1.0
Art II Drawing	03500500	MCH, SH, PF, TNC	1.0
Art II Painting	03500600	MCH, SH, PF, TNC	
Art III Drawing (Arts and Humanities Endorsement)	03501300	MCH, SH, TNC	1.0
Music Theory I	03152700	All campuses CBI	1.0
Theatre Arts I	03250100	SH, MCH	1.0

VISUAL ARTS

ART I Credit: 1 Grade: 9-12 Length: 36 weeks

This course is an introduction to the basic elements and principles of design. It includes basic drawing design techniques, from simple line drawings through advanced color studies. Students have the opportunity to examine art and artists and explore various art processes including drawing, painting and design. Students learn to use creative problem solving and critical analysis through execution of projects and critiques.

ART II ~ DRAWING or PAINTING Credit: 1 Grade: 10-12 Length: 36 weeks

Prerequisite: Art 1

This course is a continued study of the elements and principles of design and the study of two-dimensional art in the context of projects in drawing or painting. Students have the opportunity to use various drawing and/or painting media, including pastels, watercolor, acrylic, and pen and ink. Students continue to use creative problem solving and critical analysis in the execution of projects.

ART III ~ DRAWING Credit: 1 Grade: 10-12 Length: 36 weeks

Prerequisite: Art 1 and 2

This course is a continued study of the elements and principles of design and the study of two-dimensional art in the context of projects in drawing. Students have the opportunity to use various drawing media, including pastels, and pen and ink. Students continue to use creative problem solving and critical analysis in the execution of projects.

MUSIC

MUSIC THEORY Credit: 1 Grade: 9-12 Length: 36 weeks

This is an online self-paced Computer Based Instruction course, CBI, through Odysseyware.

THEATER

THEATER ARTS I Credit: 1 Grade: 9-12 Length: 36 weeks

This theater course is designed for the beginning actor. The course introduces the student to the exciting world of theater. Topics of study include expressive use of body and voice through drama games and warm-ups, basic acting techniques, script analysis, introduction to theater history, stage terminology, the production process, as well as beginning performance opportunities.

HEALTH AND PHYSICAL EDUCATION

Course	Course Code	Campus	Credit
PE Individual and Team Sports	PES00055	All (CBI)	1.0
PE Foundations of Personal Fitness (Physical Fitness in Odyssey Ware)	PES00052	All (CBI)	1.0
Health (CBI only)	03810100	All (CBI)	1.0

PE INDIVIDUAL AND TEAM SPORTS Credit: 1 Grade: 9-12 Length: 36 weeks (CBI)

The course is for the development and maintenance of the human body. Development of skill for the use in lifetime team and individual sports and activities will be conducive for healthful living. Team sports include but are not limited to; basketball, volleyball, softball, flag football, and recreational activities. Individual sports include but are not limited to; badminton, tennis, handball, Frisbee, golf, hiking, and weight training. Students are required to wear clothing appropriate for physical activity.

PE FOUNDATIONS OF PERSONAL FITNESS Credit: 1 Grade 11-12 Length: 36 weeks (CBI)

This course focuses on the student developing an individual fitness program. Activities include weight lifting, circuit training, and distance running. The classroom segment involves notes, tests, labs, and group projects concerning the physical well-being of the individual. Students are required to wear clothing appropriate for physical activity.

HEALTH Credit: 0.5 Grade 9-12 Length: 18 weeks (CBI)

This course is offered through CBI in Odyssey Ware only. Title in OW is High School Health.

LANGUAGES OTHER THAN ENGLISH

Course	Course Code	Campus	Credit
Spanish I	03440100	MCH	1.0
Spanish II	03440200	MCH	1.0
Spanish I & II through CBI	03440100 and 03440200	All	1.0
French I & II through CBI	03410100 and 03410200	All	1.0

SPANISH I Credit: 1 Grade: 8-12 Length: 36 weeks

Acquiring another language incorporates communication skills such as listening, speaking, reading, writing, viewing, and showing. Students develop these communication skills by using knowledge of the language, including grammar, culture, communication, learning strategies, technology, and content from other subject areas to socialize, to acquire and provide information, to express feelings and opinions, and to get others to adopt a course of action. While knowledge of other cultures, connections to other disciplines, comparisons between languages and cultures, and community interaction all contribute to and enhance the communicative language learning experience, communication skills are the primary focus of language acquisition.

SPANISH II Credit: 1 Grade: 9-12 Length: 36 weeks

Students of languages other than English gain the knowledge to understand cultural practices (what people do) and products (what people create) and to increase their understanding of other cultures as well as to interact with members of those cultures. Through the learning of languages other than English, students obtain the tools and develop the context needed to connect with other subject areas and to use the language to acquire information and reinforce other areas of study. Students of languages other than English develop an understanding of the nature of language, including grammar, and culture and use this knowledge to compare languages and cultures and to expand insight into their own language and culture. Students enhance their personal and public lives and meet the career demands of the 21st century by using languages other than English to participate in communities in Texas, in other states, and around the world.

TECHNOLOGY

DIGITAL COMMUNICATIONS IN THE 21ST CENTURY: 03580610**Credit: 1 Grade: 9-12 Length: 36 weeks (MCH only, due to certification requirements)**

The prerequisite for this course is proficiency in the knowledge and skills in Technology Applications for grades 6-8. Through the study of technology applications foundations, including technology-related terms, concepts, and data input strategies; students learn to make informed decisions about technologies and their applications. The efficient acquisition of information includes the identification of task requirements; plans for using search strategies; and the use of technology to access, analyze, and evaluate the acquired information. By using technology as a tool that supports the work of individuals and groups in solving problems, students select the technology appropriate for the task, synthesize knowledge, create a solution, and evaluate the results. Students communicate information in different formats and to diverse audiences. A variety of technologies will be used.

OTHER GENERAL ELECTIVES

COLLEGE TRANSITION: N1290050**Dual Credit: 0.5 Grade: 11-12 Length: 18 weeks (MCH through McClellan Community College)**

College Transition is a dual credit course offered by MCC. The course number is PSY1100. The course is designed to equip students with the knowledge, skills, and abilities necessary to be active and successful learners both in high school and in college.

METHODOLOGY FOR ACADEMIC AND PERSONAL SUCCESS I (MAPS): N1130021**Credit: 0.5 Grade: 9-12 Length: 18 weeks**

MAPS will build on student's abilities by developing critical time management, organization, and study skills. The courses focus on self-understanding, decision-making, resiliency, attitude, character education, and leadership to help students maximize personal achievement. Students will develop the specific strategies necessary to achieve their personal and professional goals. The course emphasizes proactive problem solving, self-determination, and independent thinking and learning skills. The course uses a series of ten visual metaphors to teach social, emotional, and leadership principles. The program is evidence based, and has been proven to lower dropout, reduce failure, increase GPA, decrease expulsion, increase graduation rates, and improve positive behaviors in youth of all learning types. The distinctive multisensory learning approach has given educators in over 16,000 schools and organizations the tools and skills they need to create a climate and culture of respect, resilience, and academic success; helping students to thrive not only in school, but in life.

National Collegiate Athletic Association (NCAA)

Initial eligibility Clearinghouse Requirements and Qualifier information

Student-athletes who plan to attend an NCAA Division I or Division II college or university and who plan to participate in athletics must register with the Clearinghouse. Application to the NCAA Initial eligibility Clearinghouse is made during the summer between the student-athlete's junior and senior year of high school and is the responsibility of the student-athlete and parent/guardian. The student must be classified as a senior with respect to the student's Academic Achievement Record (transcript) prior to applying to the Clearinghouse. Registration with the Clearinghouse can be completed on the we4b site (www.ncaaclearinghouse.net), or by using the paper version of the NCAA Guide for the College-Bound Student Athlete. Details and other information concerning NCAA requirements may also be obtained from the Academic Transition Coordinator or the NCAA web site (www.ncaa.org).

The following are current NCAA freshman eligibility standards.

Division I Core GPA and Test Score Sliding Scale

Core GPA	SAT	ACT
3.550 & above	400	37
3.525	410	38
3.500	420	39
3.475	430	40
3.450	440	41
3.425	450	41
3.400	460	42
3.375	470	42
3.350	480	43
3.325	490	44
3.300	500	44
3.275	510	45
3.250	520	46
3.225	530	46
3.200	540	47
3.175	550	47
3.150	560	48
3.125	570	49
3.100	580	49
3.075	590	50
3.050	600	50
3.025	610	51
3.000	620	52
2.975	630	52
2.950	640	53
2.925	650	53
2.900	660	54
2.875	670	55
2.850	680	56
2.825	690	56
2.800	700	57
2.775	710	58
2.750	720	59
2.725	730	59
2.700	730	60
2.675	740-750	61
2.650	760	62
2.625	770	63
2.600	780	64
2.575	790	65
2.550	800	66
2.525	810	67
2.500	820	68
2.475	830	69
2.450	840-850	70
2.425	860	70
2.400	860	71
2.375	870	72
2.350	880	73
2.325	890	74
2.300	900	75
2.275	910	76
2.250	920	77
2.225	930	78
2.200	940	79
2.175	950	80
2.150	960	80
2.125	960	81
2.100	970	82
2.075	980	83
2.050	990	84
2.025	1000	85
2.000	1010	86

4 COLLEGE-BOUND STUDENT-ATHLETE

Division I and II: 16 Core-Course Rule

If you want to participate in athletics or receive an athletic scholarship during your first year, you must:

- Graduate from high school;
- Complete these 16 core courses:
 - 4 years of English
 - 3 years of math (Algebra 1 or higher)
 - 2 years of natural or physical science (including one year of lab science if offered by your high school)
 - 1 extra year of English, math, or natural or physical science
 - 2 years of social science
 - 4 years of extra core courses (from any category above, or foreign language, non-doctrinal religion or philosophy);
- Earn a minimum required grade-point average in your core courses (2.3 for Div I); and
- Earn a combined SAT or ACT sum score that matches your core-course grade-point average and test score sliding scale (for example, a 2.400 core-course grade-point average needs an 860 SAT).

****Students enrolling in a Division I College or University on or after August, 2016 will follow the new NCAA guidelines.**

MIDDLE SCHOOL COURSE GUIDE

The middle school section of the course guide has been developed to provide information to students and parents regarding courses available in grades 6, 7, and 8. It provides a brief description of each course offered, lists any prerequisites or special requirements and gives information on promotion requirements. The goal of the middle school is to provide a challenging academic program in a supportive school environment.

Promotion and Retention- Middle School

Students are promoted from one grade to the next on the basis of academic achievement. Middle School students must have an overall average of 70% or above as well as an average of 70% in at least three of the following core subjects: English/Reading, Mathematics, Social Studies, and Science. Per state requirements, for promotion to high school, 8th grade students must also pass the Reading and Math portions of the STAAR for year 2012-2013 and beyond.

Grade Level Course Requirements

Sixth grade students are required to take the following courses:

- Language Arts
- Math
- Science
- History
- Elective(s)

Seventh grade students are required to take the following courses:

- Language Arts
- Math
- Science
- Texas History
- Elective(s)

Eighth grade students are required to take the following courses:

- Language Arts
- Math
- Science
- U.S. History
- Elective(s)

ELA

Language Arts 6

The regular language arts course is an integrated approach to the study of English. The course is paced to suit the ability level of the students. Materials used in reading instruction include selections from the state adopted basal, supplementary reading across all disciplines, selected short stories, poetry, and novels. An emphasis is placed on reading from various genres of literature for exposure and enjoyment. The vocabulary includes context words taken from reading selections and SAT vocabulary. The writing program allows students to apply their integrated knowledge in a variety of guided experiences. The students are given opportunities for both creative and expository writings. Capitalization, grammar, punctuation, and usage are taught as editing skills in the context of the student's own writing. The use of technology is incorporated throughout the year.

Language Arts 7

The regular language arts course is an integrated approach to the study of English, incorporating reading and writing skills. Vocabulary enrichment, word attack skills, prefixes, suffixes, and etymology, as well as word usage, grammar and editing practice are studied in a process writing / response-based reading approach. The writing program allows students to apply their integrated knowledge in a variety of guided experiences. Opportunities to publish their work in a variety of ways give students the chance to vary their audience and point of view. Reading comprehension and

analysis are developed through reading response, novel and poetry projects, and short story study. The use of technology is incorporated throughout the year.

Language Arts 8

The regular language arts course is an integrated approach to the study of English, incorporating both reading and writing skills. A literature-based reading program is fused with a process-oriented writing program to provide a well-rounded language arts curriculum. Different genres of literature are read for enjoyment, exposure to different people and ideas, enhancement of reading comprehension, and access to meaningful writing topics. The writing program allows students to apply their integrated knowledge in a variety of guided experiences. Important components of the integrated program include exercises in spelling, vocabulary, punctuation, capitalization, usage, and grammar as each applies to the reading/writing process. The use of technology is incorporated throughout the year.

ESL (English as a Second Language)

Grade Level: 6, 7, and 8

Prerequisite: LPAC Recommendation

ESL is offered to students who are native speakers of a language other than English based on language assessment criteria. Comprehension of listening, speaking, reading, and writing skills are addressed at the appropriate level for each individual student.

MATHEMATICS

Math 6

The sixth grade mathematics curriculum is designed to expand students' knowledge of numbers, number theory, computation, estimation, measurement, geometry, statistics, probability, patterns and functions, and the fundamental concepts of algebra through a problem solving approach. The course prepares the beginning middle school student for the rigor required in higher math courses through sustained mathematics practice and problem solving. Pre-algebra is introduced in concrete ways through which students are taught that the process in mathematics is as important as the answer. Manipulative are used to introduce concepts in a concrete format. Students move from the concrete, to the pictorial, to the abstract thus preparing them for a better understanding of Algebra I and Geometry at the high school level. Technology, including calculators, computers and video, is used when appropriate.

Math 7

The seventh grade students will further review, develop, and enrich their proportional thinking, algebraic reasoning, operations with rational numbers, geometry and spatial reasoning, statistical analysis, and problem solving. With an emphasis on process and justification, students learn to evaluate their answers for reasonableness. Throughout the year, students maintain basic computation skills. Other concepts are taught through conceptual learning, beginning with concrete examples, which eventually lead to the abstract level. Technology, including calculators, computers and video, is used when appropriate.

Math 8

This course enables students to use mathematic skills learned in previous grades to begin the study of introductory algebra with an emphasis on problem solving and application. This is the last course the student will take before entering first year high school algebra. Topics covered include measurement, geometry terms and formulas, number theory, probability, statistics, proportions, percent, graphing, computation, and the use of calculators. Problem solving will be an integral part of assessment. Technology, including calculators, computers and video, is used when appropriate.

SCIENCE

Science 6

Students explore concepts found in physical, earth, and life sciences. Topics discussed include using the scientific method, structure and properties of matter, organization of living systems, interdependence of organisms and the environment, energy resources, weather systems and earth science, including the changing Earth and components of the solar system. Student's class time may involve laboratory experiences to further develop concepts, critical thinking skills, and scientific process skills.

Science 7

The study of science includes conducting field and laboratory investigations using scientific methods, critical thinking, problem-solving, and using tools such as weather instruments and calculators to collect and analyze information to explain a phenomenon. Students also use computers and information technology tools to support

scientific investigations. Units of study include solar system, force and motion, simple machines, body systems, chemistry, genetics, energy, cycles and systems. Student research and projects will include research and experimentation.

Science 8

In Grade 8, the study of science includes planning and conducting field and laboratory investigations using scientific methods, analyzing data, critical-thinking, scientific problem-solving, and technology tools to support scientific investigations. Students will identify the roles of both human activities and natural events of Earth systems and those of the universe. Students will engage in an understanding of the periodic table including the groups and families. Students will acquire an understanding of chemical reactions and their relationship to matter and energy. Genetic combinations and Darwin's theory of survival is explored.

SOCIAL STUDIES

World Civilization 6

Students study selected contemporary world cultures chosen from these culture realms: Europe, Russia and the Eurasian republics, North America, Middle America, South America, Southwest Asia-North Africa, Sub-Saharan Africa, South Asia, East Asia, Southeast Asia, Australia, and the Pacific Realm. Course content will enable students to understand civic ideals, citizenship practices, and the basis of the U.S. constitutional republic; economic systems, including the benefits of the U.S. free enterprise system; geographic relationships; the purposes, structures, and functions of political systems; ways individuals and societies have interacted over time; the similarities and differences among people; and the relationships among science, technology, and society. Social studies skills enable students to acquire, organize, and use information for problem solving and decision-making.

Texas History 7

Texas History provides a variety of opportunities for each student to explore our state. State government, geography, the justice system, and general history are studied. Higher-level thinking skills are practiced in cooperative learning groups and through individual performance. Thematic units, interdisciplinary studies, and reinforcement of language arts, math, science, and computer/technology resources are used to study Texas from the period of discovery to the 21st Century.

United States History 8

Students study the history of the United States from the early colonial period through Reconstruction. Students will understand civic ideals, citizenship practices, and the basis of the U.S. constitutional republic; economic systems, including the benefits of the U.S. free enterprise system; geographic relationships; the purposes, structures, and functions of political systems; ways individuals and societies have interacted over time; the similarities and differences among people; and the relationships among science, technology, and society. Social studies skills enable students to acquire, organize, and use information for problem solving and decision-making

PHYSICAL EDUCATION

Physical Education at limited campuses

Grade Level: 6, 7 and 8

The physical education program involves team sports, lifetime sports, and fitness workouts. Activities vary depending on facilities, but may include basketball, cardiovascular conditioning, disc golf, dodge ball, fitness testing, kickball, muscular fitness, orienteering, soccer, softball, tennis, touch football, track and field, and volleyball.

ELECTIVES

Reading Grade Level: 6, 7, and 8 (by placement only)

Reading enrichment provides a structured, multi-sensory approach to teaching decoding skills, spelling skills, handwriting skills, and verbal expression skills to students. This course presents the different kinds of syllables, the division of longer words, the reliable spelling patterns, frequently misspelled words, word origins, and the rules for adding affixes. Reading Enrichment includes reading comprehension skills and practices, as well as STAAR skills and practice.

Math Intervention for MS Grade Level: 6, 7, and 8 (by placement only)

The math intervention curriculum is designed to expand the student's knowledge of numbers, computation, estimation, measurement, geometry, statistics, probability, patterns, and fundamental concepts of algebra through a problem solving approach. Classroom activities provide students the opportunity to develop concrete understanding of concepts before moving to the abstract. This is a targeted intervention and individualized instruction based on student need.

Art ~ Grade 6, 7, and 8

Students are taught the basic elements and principles of art as they explore various media including pencil drawing, painting, printmaking, sculpting, and pottery. Films and slides of the masters, as well as contemporary artists, are shown. Visiting artists demonstrate techniques, and creative expression is encouraged. Discussions concerning aesthetics, proportion, and perspective also are integral parts of this class.

Music ~ Grade 6, 7, and 8

Four basic strands--perception, creative expression/performance, historical and cultural heritage, and critical evaluation--provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire. In music, students develop their intellect and refine their emotions, understanding the cultural and creative nature of musical artistry and making connections among music, the other arts, technology, and other aspects of social life. Through creative performance, students apply the expressive technical skills of music and critical-thinking skills to evaluate multiple forms of problem solving.

Exploring Careers and Career Portals (MCH, TNC, AH, SH, PW)

The career development process is unique to every person and evolves throughout one's life. Students will use decision-making and problem-solving skills for college and career planning. Students will explore valid, reliable educational and career information to learn more about themselves and their interests and abilities. Students integrate skills from academic subjects, information technology, and interpersonal communication to make informed decisions. This course is designed to guide students through the process of investigation and in the development of a college and career achievement plan. Students will use interest inventory software, career cruising, or other tools to explore areas of personal interest. Students will use this information to explore educational requirements for a variety of chosen career paths.

TECHNOLOGY APPLICATIONS~ Grade 7 & 8 (MCH only)

Through the study of technology applications foundations, including technology-related terms, concepts, and data input strategies; students learn to make informed decisions about technologies and their applications.

COURSES FOR HIGH SCHOOL CREDIT

ALGEBRA I Credit: 1 Grade: 8 Length: 36 weeks

The focus of Algebra 1 is on solving relevant and interesting problems and on applying algebraic principles in a variety of real-world situations. This course will include the study of the real number system, algebraic representation, solutions and evaluation of problem situations, graphing to interpret linear relations, functions and inequalities, quadratic equations and polynomials.

HEALTH: Credit 0.5 Grade: 7-8 Length: 18 weeks (CBI at all campuses, MCH)

In health education, students acquire the health information and skills necessary to become healthy adults and learn about behaviors in which they should and should not participate. To achieve that goal, students will understand the following: personal behaviors can increase or reduce health risks throughout the lifespan; health is influenced by a variety of factors; students can recognize and utilize health information and products; and personal/interpersonal skills are needed to promote individual, family, and community health.

SPANISH I: Credit: 1 Grade Level: 7-8 Length: 36 weeks (MCH or CBI through Odyssey Ware)

Spanish 1 introduces the basic language skills of showing, viewing, listening, reading, speaking and writing in Spanish. Students will learn vocabulary and grammatical structures necessary to communicate in everyday situations. A variety of videos, student presentations, projects, and dramatizations will be used to reinforce language skills and introduce various aspects of Hispanic culture.

PRINCIPLES OF AGRICULTURE, FOOD AND NATURAL RESOURCES: Credit: 1 Grade: 8 Length: 36 weeks (MCH, PW or TNC only)

The course Principles of Agriculture, Food, and Natural Resources is comprehensive and designed to enhance understanding of the agriculture industry. Students will develop technical knowledge and skills related to plant and animal systems, food production, mechanical systems, entrepreneurship, leadership, and environmental sciences.

PRINCIPLES OF HUMAN SERVICES Credit: 1 Grade: 9-12 Length: 36 weeks (SH only)

This laboratory course enables students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers

SPEECH: Communication Application: Credit: 0.5 Grade level: 8 Length: 18 weeks (Odyssey Ware title Essentials of Communication)

For successful participation in professional and social life, students must develop effective communication skills. Rapidly expanding technologies and changing social and corporate systems demand that students send clear verbal messages, choose effective nonverbal behaviors, listen for desired results, and apply valid critical-thinking and problem solving processes. Students enrolled in Communication Applications are expected to identify, analyze, develop, and evaluate communication skills needed for professional and social success in interpersonal situations, group interactions, and personal and professional presentations.

THEATER ARTS I: Credit: 1 Grade: 7-8 Length: 36 weeks

This theater course is designed for the beginning actor. The course introduces the student to the exciting world of theater. Topics of study include expressive use of body and voice through drama games and warm-ups, basic acting techniques, script analysis, introduction to theater history, stage terminology, the production process, as well as beginning performance opportunities.