

2023-2024

KUEMPER HIGH SCHOOL

COURSE BOOKLET



2023-2024
KUEMPER HIGH SCHOOL COURSE BOOKLET

TABLE OF CONTENTS

Content Page

Philosophy of Kuemper Catholic High School.....	3
Message to Students & Parents.....	3
Guidelines & Requirements for Registration.....	3
Required Credits.....	4
Considerations for Choosing Elective Courses.....	5
Graduation Requirements.....	5
Course Prerequisites.....	6
Required Courses for Freshman Year	8
Required Courses for Sophomore Year	9
Required Courses for Junior Year	10
Required Courses for Senior Year	11
Course Offerings by Department	12
Course Descriptions	
Agriculture.....	14
Art.....	19
Business Education	22
Computer Technology.....	24
English.....	26
Family & Consumer Science.....	30
Foreign Language.....	32
Industrial Education	33
Mathematics.....	36
Music.....	40
Physical Education/Health	41
Science.....	43
Social Science.....	47
Theology.....	50
Life Skills.....	53
2023-2024 DMACC Course Offerings	54

PHILOSOPHY OF KUEMPER CATHOLIC HIGH SCHOOL

Kuemper Catholic High School offers students a quality education, which prepares them to become mature, Catholic Christians, competent, responsible citizens, capable and willing to serve God, their family, their parish, and the local and global communities. Kuemper Catholic High School holds a unique position among educational institutions. Within a framework of Christian values, it strives to cultivate the intellect and to build the capacity for evaluation, judgment, and reasoning.

MESSAGE TO STUDENTS & PARENTS Choosing a program of study is an important event in the life of a student. It is important because the student makes a commitment to pursue the courses for an entire year. Equally important, the courses chosen should be appropriate to the student's goals. Inappropriate courses can be costly in terms of time spent. Although no student can be 100% sure that his/her choices are "correct," those inappropriate choices can be minimized by careful and thoughtful planning. The student needs to identify his/her interests, abilities, and goals and determine how these relate to the task of selecting courses. Taking the minimum number of courses each semester is not necessarily the best program for a student. It should be looked at more from the standpoint of what are the maximum number of courses the student should take in view of his/her interests, college requirements, long-range occupational goals, and how much time the student uses for study outside of class time.

GUIDELINES & REQUIREMENTS FOR REGISTRATION

1. The administration reserves the right to schedule courses within the time allocated for the regular school day. The regular school day includes eight periods from 8:05 a.m. to 3:10 p.m. Building a master course schedule requires the maximum degree of flexibility in terms of the periods courses are scheduled to meet. This is necessary so the needs of the greatest number of students can be served and teachers' time can be utilized in the most efficient manner.
2. Each student is expected to earn a minimum of six credits each semester, plus Physical Education. By carrying a normal load and successfully completing all required and elective courses, a student will have sufficient credits to graduate at the end of four school years. Any exceptions to this requirement must be approved in advance by the principal. No student can have more than two study halls in one day.
3. It is imperative that when each student completes his/her final registration, the decision be considered final. The totality of these decisions on the part of all students provides the basic information needed to determine the number of teachers to teach the courses. To allow unlimited student course changes creates a great number of scheduling problems, which ultimately result in loss of education opportunity to students.
4. Any required courses that are failed must be repeated.
5. Except for unusual circumstances, full year courses may not be started at the beginning of the second semester.
6. Students carrying a normal load are not permitted to change classes after the fifth day of either semester. Approval will be granted only if enrollment in the alternate course is open and the teachers involved in the dropped/added courses approve.
7. If course enrollment must be limited, upperclassmen will be given preference over underclassmen.
8. Prerequisites are noted in the Course Descriptions section. Lower level courses must be satisfactorily completed before advancing to the next course. Teacher/counselor approval is necessary in order to advance to higher-level courses. In most instances, at least a "C" average is necessary to advance to the next level.
9. Each student will develop a 4-year plan that outlines the courses for his/ her high school career. The 4-year plan will be subject to revision each year based on changes on student plans and revisions in the course offerings.

10. Special programs: We believe all students need to be challenged academically while at Kuemper Catholic High School. The curriculum and various programs are designed so that each student at Kuemper receives the best possible education. The following is a list of programs that are designed to help all students excel:

Advanced Placement Program: Upon the successful completion of an Advance Placement (AP) course, students will take the Advanced Placement Exam for possible college credit. AP courses require significantly more time than a typical high school course. These courses are recommended for students who have a strong interest and aptitude in the subject matter. A special weight factor of 1.20 is assigned to AP courses.

College-Level Courses: Courses are offered for both high school and college credit. These “concurrent enrollment” courses are offered through DMACC and St. Louis University.

Honors Courses: These classes are designed to challenge students who are academically oriented. A special weight factor of 1.20 is assigned to Honors courses. For example: If an “A” grade is earned in an honors course, this grade will yield 4.8 quality points ($4.0 \times 1.2 = 4.8$). In a regular course, an “A” grade would yield 4.0 quality points ($4.0 \times 1.0 = 4.0$).

Learning Center: All students can succeed. The Learning Center assists students who find it difficult to keep pace with most classes, through personalized attention.

REQUIRED CREDITS

The purpose of required courses is to provide each student, according to his/her abilities, the opportunity to learn the knowledge and develop the skills that are considered essential for each Kuemper Catholic High School graduate and serves as a foundation for continued learning in elective courses.

Listed below are the required courses for graduation and the minimum number of credits required within each department. These requirements are expected to be satisfied by every student graduating from Kuemper Catholic High School.

Theology: Eight (8) credits are required for graduation.

Business Education: One (1) credit is required for graduation

English: Eight (8) credits are required for graduation (Including 1 credit of Speech)

Health: One (1) credit is required for graduation.

Mathematics: Six (6) credits are required for graduation.

Physical Education: Eight (8) semesters are required for graduation

Science: Six (6) credits are required for graduation.

Social Sciences: Six (7) credits are required for graduation.

On occasion, it may be in the best interest of a student to grant exceptions to these requirements or to plan a program which allows more flexibility to meet the academic interests and needs.

Only the principal of Kuemper Catholic High School grants exceptions of this nature.

CONSIDERATIONS FOR CHOOSING ELECTIVE COURSES

Recognizing individual differences in students, Kuemper Catholic High School offers a wide range of electives. Students should consider the following when choosing electives: - Interests - Abilities - Long-range educational plans - Long-range occupational and vocational plans

GRADUATION REQUIREMENTS

1. Students must acquire a minimum of 52 credits to graduate.
2. One (1) credit per semester is awarded for passing work in most courses. Therefore, a year-long course earns two (2) credits when completed satisfactorily. A few courses carry less than or more than one (1) credit per semester. These are noted in the course descriptions.
3. Students who do not meet graduation requirements will not be able to participate in Baccalaureate or Graduation exercises.
4. Graduation requirements for students who transfer into Kuemper Catholic High School after the freshman year will be evaluated on an individual basis.

HONORS COURSE ELIGIBILITY CRITERIA

In all honors courses, students who do not meet the criteria, but show a strong desire and growth mindset in regards to approaching honor's level criteria will be considered, but must show evidence of a strong *desire and ability* to work hard and succeed in these more rigorous courses.

- **ART:**
 - **Art, Honors:** Students should have taken at least 5 art courses previously, included in those courses must be Art 1, Drawing, and Painting. Students should have earned a minimum of a B+ in all prior art coursework.
- **ENGLISH:**
 - **Freshman English, Honors:** Students should have had a minimum B+ in all prior English coursework. Teacher recommendations will also be factored.
 - **Sophomore English, Honors:** Students should have had a minimum B- in Honors English, or a minimum B+ in regular English. Teacher recommendations will also be factored.
 - **American Lit, Honors:** Students should have had a minimum B- in Honors English, or a minimum B+ in regular English. Teacher recommendations will also be factored.
 - **Comp I, Honors (ENG 105):** Teacher recommendation based on previous writing skills.
 - **Comp II, Honors (ENG 106):** C- or better score in Honors Comp I
- **MATHEMATICS:**
 - **Geometry, Honors:** Students should have had a minimum B+ in all math classes previously. Teacher recommendation
 - **Pre-calc/Trig, Honors:** Students should have had a minimum B- in honors Math Classes previously, or B+ in regular math. Teacher recommendation
 - **Calculus, Honors/DMACC:** Students must have completed Honors Pre-calc/ Trig.
- **SCIENCE:**
 - **Physical Science, Honors:** Students should have had a minimum B+ in all science classes previously. Should show above grade level skill in science on Iowa Assessments. Teacher recommendation.
 - **Biology, Honors:** Students should have had a minimum B+ in all regular science classes previously or B- in honors science. Should show above grade level skill in science on Iowa Assessments. Teacher recommendation.
 - **Chemistry, Honors:** Students should have had a minimum B+ in all regular science classes previously or B- in honors science. Should show above grade level skill in science on Iowa Assessments. Teacher recommendation.
 - **Human Biology, Honors:** Students should have had a minimum B+ in all regular science classes previously or B- in honors science. Should show above grade level skill in science on Iowa Assessments.
 - **Physics, DMACC:** Students should have successfully completed semester one of high school physics.

- **SOCIAL SCIENCE:**

- **US History, Honors:** Students should have had a minimum B+ in all social studies classes previously. Should show above grade level skill in social studies on Iowa Assessments. Teacher recommendation.
- **World History, Honors:** Students should have had a minimum B+ in all social studies classes previously. Should show above grade level skill in social studies on Iowa Assessments. Teacher recommendation.
- **Government, Honors:** Students should have had a minimum B+ in all social studies classes previously, or a B- in AP US history. Should show above grade level skill in social studies on Iowa Assessments. Teacher recommendation.

- **THEOLOGY**

- **Paschal Mystery, Honors:** Students should have had a minimum B+ in all theology classes previously. Should show above grade level skill in reading on Iowa Assessments. Teacher recommendation.
- **The Church, Honors:** Students should have had a minimum B+ in all theology classes previously. Should show above grade level skill in reading on Iowa Assessments. Teacher recommendation.
- **Morality, Honors:** Students should have had a minimum B+ in all theology classes previously. Should show above grade level skill in reading on Iowa Assessments. Teacher recommendation.
- **Sacraments, Honors:** Students should have had a minimum B+ in all theology classes previously or B- in honors. Should show above grade level skill in reading on Iowa Assessments. Teacher recommendation.
- **Vocations, Honors:** Students should have had a minimum B+ in all theology classes previously or B- in honors. Should show above grade level skill in reading on Iowa Assessments. Teacher recommendation.
- **Christian Lifestyles, Honors (Discipleship):** Students should have had a minimum B+ in all theology classes previously or B- in honors. Should show above grade level skill in reading on Iowa Assessments. Teacher recommendation.

FRESHMAN YEAR REQUIRED COURSES	
THEOLOGY	8 CREDITS REQUIRED FOR GRADUATION
<i>REQUIRED</i>	0879 THE BIBLE (SEM) 0880 WHO IS JESUS CHRIST (SEM)
COMPUTER TECHNOLOGY	1 CREDIT REQUIRED FOR GRADUATION
<i>TAKEN IN 9TH OR 10TH GRADE</i>	0150 COMPUTER SCIENCE DISCOVERIES (SEM)
ENGLISH	8 CREDITS REQUIRED FOR GRADUATION
<i>MUST CHOOSE ONE</i>	0180 FRESHMAN ENGLISH (YEAR) 0182 HONORS FRESHMAN ENGLISH (YEAR)
HEALTH	1 CREDIT REQUIRED FOR GRADUATION
<i>TAKEN IN 9TH OR 10TH GRADE</i>	0670 HEALTH (SEM)
MATH	6 CREDITS REQUIRED FOR GRADUATION
<i>MUST CHOOSE ONE</i>	0698 INTRO TO ALGEBRA (YEAR) 0408 ALGEBRA (YEAR) 0410 GEOMETRY (YEAR) 0420 HONORS GEOMETRY (YEAR)
PHYSICAL EDUCATION	4 CREDITS (8 SEMESTERS ARE REQUIRED FOR GRADUATION)
<i>MUST CHOOSE ONE PER SEMESTER</i>	0679/0680 AEROBIC FITNESS (SEM) 0683/ 0684 PE (SEM) 0681/0682 STRENGTH TRAINING (SEM)
SCIENCE	6 CREDITS REQUIRED FOR GRADUATION
<i>MUST CHOOSE ONE</i>	0709 PHYSICAL SCIENCE (YEAR) 0711 HONORS PHYSICAL SCIENCE (YEAR)
SOCIAL SCIENCE	7 CREDITS REQUIRED FOR GRADUATION
<i>MUST CHOOSE ONE</i>	0802 US HISTORY (YEAR) 0807 HON US HISTORY (YEAR)
<ul style="list-style-type: none"> REFER TO HONORS COURSE ELIGIBILITY CRITERIA LOCATED ON PAGES 6-7 OF THIS COURSE BOOKLET 	

SOPHOMORE YEAR REQUIRED COURSES	
THEOLOGY	8 CREDITS REQUIRED FOR GRADUATION
<i>MUST CHOOSE ONE</i>	0881 THE PASCHAL MYSTERY (SEM) 0888 HONORS PASCHAL MYSTERY (SEM)
<i>MUST CHOOSE ONE</i>	0882 THE CHURCH (SEM) 0889 HONORS THE CHURCH (SEM)
COMPUTER TECHNOLOGY	1 CREDIT REQUIRED FOR GRADUATION
<i>TAKEN IN 9TH OR 10TH GRADE</i>	0150 COMPUTER SCIENCE DISCOVERIES (SEM)
ENGLISH	8 CREDITS REQUIRED FOR GRADUATION
<i>REQUIRED</i>	0199 SPEECH (SEM)
<i>MUST CHOOSE ONE</i>	0197 SOPHOMORE ENGLISH (SEM) 0198 HONORS SOPHOMORE ENGLISH (SEM)
HEALTH	1 CREDIT REQUIRED FOR GRADUATION
<i>TAKEN IN 9TH OR 10TH GRADE</i>	0670 HEALTH (SEM)
MATH	6 CREDITS REQUIRED FOR GRADUATION
<i>MUST CHOOSE ONE</i>	0408 ALGEBRA I (YEAR) 0426 ALGEBRA II (YEAR) 0402 BASIC GEOMETRY (YEAR) 0410 GEOMETRY (YEAR) 0420 HONORS GEOMETRY (YEAR)
PHYSICAL EDUCATION	4 CREDITS (8 SEMESTERS ARE REQUIRED FOR GRADUATION)
<i>MUST CHOOSE ONE PER SEMESTER</i>	0675/0676 AEROBIC FITNESS (SEM) 0683/ 0684 PE (SEM) 0681/0682 STRENGTH TRAINING (SEM)
SCIENCE	6 CREDITS REQUIRED FOR GRADUATION
<i>MUST CHOOSE ONE</i>	0713 BIOLOGY (YEAR) 0717 HONORS BIOLOGY (YEAR)
SOCIAL SCIENCE	7 CREDITS REQUIRED FOR GRADUATION
<ul style="list-style-type: none"> REFER TO HONORS COURSE ELIGIBILITY CRITERIA LOCATED ON PAGES 6-7 OF THIS COURSE BOOKLET 	

JUNIOR YEAR REQUIRED COURSES	
THEOLOGY	8 CREDITS REQUIRED FOR GRADUATION
<i>MUST CHOOSE ONE</i>	0883 CHRISTIAN MORALITY (SEM) 0884 HONORS CHRISTIAN MORALITY (SEM)
<i>MUST CHOOSE ONE</i>	0906 THE SACRAMENTS (SEM) 0885 HONORS SACRAMENTS (SEM)
ENGLISH	8 CREDITS REQUIRED FOR GRADUATION
<i>MUST CHOOSE 2 SEMESTER LENGTH COURSES - AMERICAN LITERATURE OR HONORS AMERICAN LIT IS REQUIRED FOR GRADUATION</i>	0211 AMERICAN LITERATURE (SEM) 0212 HONORS AMERICAN LITERATURE (SEM) 0215 STRATEGIC READING AND WRITING (SEM) 0216 GLOBAL VOICES IN LITERATURE (SEM) 0223 LITERATURE FOR APPRECIATION I (SEM) 0224 ENGLISH PROFICIENCY (SEM) 0234 THE NOVEL (SEM) 0245 COL COMP I /ENGLISH 105 (SEM) 0247 COL COMP II / ENGLISH 106 (SEM)
MATH	6 CREDITS REQUIRED FOR GRADUATION
<i>MUST CHOOSE ONE YEAR LENGTH COURSE OR TWO SEMESTER LENGTH COURSES</i>	0424 INTERMEDIATE ALGEBRA (YEAR OR SEM 1) 0422 CONSUMER MATH (SEM 2; INTRMD ALG S1) 0431 HONORS TRIGONOMETRY & PRE-CALC (YEAR) 0426 ALGEBRA II (YEAR) 0428 TECHNICAL MATH 0429 PROBABILITY & STATISTICS (SEM)
PHYSICAL EDUCATION	4 CREDITS (8 SEMESTERS ARE REQUIRED FOR GRADUATION)
<i>MUST CHOOSE ONE PER SEMESTER</i>	0675/0676 AEROBIC FITNESS (SEM) 0683/ 0684 PE (SEM) 0681/0682 STRENGTH TRAINING (SEM) 0685/0686 PE WEIGHTS (SEM) MEETS BEFORE SCHOOL
SCIENCE	6 CREDITS REQUIRED FOR GRADUATION
<i>MUST CHOOSE ONE</i>	0730 CHEMISTRY (YEAR) 0732 HONORS CHEMISTRY (YEAR)
SOCIAL SCIENCE	7 CREDITS REQUIRED FOR GRADUATION
<i>MUST CHOOSE ONE</i>	0815 WORLD HISTORY (YEAR) 0818 HONORS WORLD HISTORY (YEAR)
<i>MUST TAKE IN 11TH OR 12TH GRADE</i>	0845 CONSUMER FINANCE (SEM)
<ul style="list-style-type: none"> REFER TO HONORS COURSE ELIGIBILITY CRITERIA LOCATED ON PAGES 6-7 OF THIS COURSE BOOKLET 	

SENIOR YEAR REQUIRED COURSES	
THEOLOGY	8 CREDITS REQUIRED FOR GRADUATION
<i>MUST CHOOSE ONE</i>	0909 VOCATIONS (SEM) 0887 HONORS VOCATIONS (SEM)
<i>MUST CHOOSE ONE</i>	0908 CHRISTIAN LIFESTYLES (SEM) 0886 HONORS CHRISTIAN LIFESTYLES (SEM)
ENGLISH	8 CREDITS REQUIRED FOR GRADUATION
<i>MUST CHOOSE 2 SEMESTER LENGTH COURSES - AMERICAN LITERATURE OR HONORS AMERICAN LIT IS REQUIRED FOR GRADUATION</i>	0211 AMERICAN LITERATURE (SEM) 0212 HONORS AMERICAN LITERATURE (SEM) 0215 STRATEGIC READING AND WRITING (SEM) 0216 GLOBAL VOICES IN LITERATURE (SEM) 0229 CREATIVE WRITING (SEM) 0223 LITERATURE FOR APPRECIATION I (SEM) 0224 ENGLISH PROFICIENCY (SEM) 0235 MASS COMMUNICATIONS (SEM) 0234 THE NOVEL (SEM) 0245 COL COMP I /ENGLISH 105 (SEM) 0247 COL COMP II / ENGLISH 106 (SEM)
MATH	6 CREDITS REQUIRED FOR GRADUATION
PHYSICAL EDUCATION	4 CREDITS (8 SEMESTERS ARE REQUIRED FOR GRADUATION
<i>MUST CHOOSE ONE PER SEMESTER</i>	0675/0676 AEROBIC FITNESS (SEM) 0683/ 0684 PE (SEM) 0681/0682 STRENGTH TRAINING (SEM) 0685/0686 PE WEIGHTS (SEM) MEETS BEFORE SCHOOL
SCIENCE	6 CREDITS REQUIRED FOR GRADUATION
SOCIAL SCIENCE	7 CREDITS REQUIRED FOR GRADUATION
<i>MUST CHOOSE ONE</i>	0831 US GOVERNMENT (SEM) 0809 HON US GOVERNMENT (SEM)
<i>REQUIRED</i>	0806 GLOBAL STUDIES (SEM)
<i>MUST TAKE IN 11TH OR 12TH GRADE</i>	0845 CONSUMER FINANCE (SEM)
<ul style="list-style-type: none"> REFER TO HONORS COURSE ELIGIBILITY CRITERIA LOCATED ON PAGES 6-7 OF THIS COURSE BOOKLET 	

AGRICULTURE

104 Intro to Ag, Food & Natural Resources
107 Ag Business
109 Ag Welding & Fabrication
111 Natural Resources & Ecology
112 Fall Horticulture
113 Spring Horticulture
114 Advanced Animal Science
115 Basic Animal Science
116 Agricultural Processing
117 Landscape & Floral Design
118 Supervised Agricultural Experience
120 Ag Leadership
125 Agricultural Power & Technology
127 Crop Production

ART

074 Art I
075 Art II
086 Drawing Fundamentals
087 Painting Fundamentals
094 Pottery Fundamentals
095 Advanced Pottery
096 Advanced Art
097 Digital Design
099 Digital Imaging

BUSINESS EDUCATION

139 Yearbook
157 Accounting I
160 Accounting II
162 Introduction to Business
164 Sports & Entertainment Marketing

COMPUTER TECHNOLOGY

098 Charger-Digital Media & Design
150 Computer Science Discoveries
156 Web Design
165 Coding Technology
166 Computer Science

ENGLISH

180 Freshman English
182 Honors Freshman English
197 Sophomore English
198 Honors Sophomore English
199 Speech
211 American Literature
212 Honors American Literature
215 Strategic Reading and Writing
216 Global Voices in Literature
223 Literature for Appreciation I
229 Creative Writing
234 The Novel
235 Mass Communication
245 COL Composition I (ENG 105)
247 COL Composition II (ENG 106)

FAMILY & CONSUMER SCIENCES

336 Sewing & Fashion Merchandising
340 Early Childhood Growth & Development
341 Middle Childhood & Adolescent Development
343 Food Preparation & Health Management
344 Introduction to Baking Science & Fundamentals
345 Culinary Art Specialty
346 Housing and Interiors

FOREIGN LANGUAGE

301 Spanish I
304 Spanish II
309 Spanish III
312 Spanish IV

INDUSTRIAL EDUCATION

361 Woods I
363 Woods II
376 Adv Woods
378 Mechanical Drafting
380 Independent Industrial Technology
381 Introduction to Construction
382 Computer-Aided Drafting & Design
384 Advanced Computer-Aided Drafting
385 Architectural Drafting
388 CNC Programming

MATHEMATICS

398 Intro to Algebra
408 Algebra
402 Basic Geometry
410 Geometry
420 Honors Geometry
422 Consumer Math
424 Intermediate Algebra
426 Algebra II
428 Technical Math
429 Probability and Statistics
431 Honors Trigonometry/Pre-Calculus

MUSIC

499 Chorus
501 Band
510 Music Theory
512 AP Music Theory

PHYSICAL EDUCATION/HEALTH

670 Health I
671 Health II
679/ 680 Aerobic Fitness
683/684 PE
681/682 Strength Training
685/686 PE Weight Lifting (Before School)

LIFE SKILLS

913 Life Skills

SCIENCE

709 Physical Science
711 Honors Physical Science
713 Biology
717 Honors Biology
721 Honors Human Biology
723 Meteorology
724 Biotechnology
727 Forensics
730 Chemistry
732 Honors Chemistry
736 Physics
740 Advanced Chemistry

SOCIAL SCIENCE

802 U.S. History
807 Honors U.S. History
815 World History
818 Honors World History
806 Global Studies
831 U.S. Government
809 Honors U.S. Government
834 History Through Film
840 Current Issues
845 Consumer Finance

THEOLOGY

879 The Bible
880 Who is Jesus Christ?
881 The Paschal Mystery
888 Honors Paschal Mystery
882 The Church
889 Honors The Church
883 Christian Morality
886 Honors Christian Morality
906 The Sacraments
885 Honors Sacraments
908 Christian Lifestyles
886 Honors Christian Lifestyles
909 Vocations
887 Honors Vocations

AGRICULTURAL EDUCATION (CHS)

(Revised January 2023)

FOR ALL AGRICULTURAL EDUCATION COURSES: Introduction to Agriculture, Food & Natural Resources is *highly recommended* as a prerequisite, but not required.

0104 Introduction to Agriculture, Food & Natural Resources

Grades 9-12

Semester Course - 1 Credit

This initial course in agriculture, food, and natural resources (AFNR) introduces students to the various areas of the agricultural industry, including plants, animals, agricultural mechanics, agricultural business, food science, and agricultural communications. A heavy emphasis will be on hands-on and laboratory-based learning, with many activities being connected directly to science and mathematics concepts. Students will learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning. Students will also be introduced to the National FFA Organization through leadership development, participating in career development events, and the implementation of a supervised agricultural experience (SAE) program.

0107 Agricultural Business

Grades 10-12

Semester Course - 1 Credit

This course provides students with a foundation of knowledge in business procedures and economics related to the agricultural industry. Students will explore hands-on projects and activities while studying topics such as sales and marketing, types of businesses, budgeting, record-keeping, and supply and demand in agriculture. Students will complete and discuss activities and projects that are hands-on and directly connected to concepts in mathematics, science, and general business. Students will also participate in classroom discussion about leadership development and the National FFA Organization and continue their implementation of a supervised agricultural experience (SAE) program.

0109 Agricultural Welding & Fabrication

Grades 10-12

Semester Course - 1 Credit

This course places a heavy emphasis on hands-on and laboratory-based learning in the areas of welding and fabrication. Student experiences will include basic studies of the various welding disciplines (stick, wire, and oxy-acetylene), proper safety procedures and equipment in the mechanics laboratory, and fundamental agricultural skills such as project planning, measurements, and tools. Students will make connections to concepts in science and mathematics, and apply their classwork to real-world situations in agriculture. Students will also participate in classroom discussion about leadership development and the National FFA Organization and continue their implementation of a supervised agricultural experience (SAE) program.

0111 Natural Resources & Ecology

Grades 10-12

Semester Course - 1 Credit

This course provides students a variety of experiences that are in the fields of natural resources and ecology. Students will explore hands-on projects and activities while studying topics such as renewable resources, land use, ecology, water quality, stewardship, and environmental agencies. Study of the natural world including biomes, land, air, water, energy, use and care as well as a focus on issues surrounding human interaction with the Earth will be addressed in this course. Students will also participate in classroom discussion about leadership development and the National FFA Organization and continue their implementation of a supervised agricultural experience (SAE) program.

0112 Fall Horticulture

Grades 10-12

Semester Course - 1 Credit

This course provides students with a background in agricultural science as it relates to plants grown for aesthetics. This course will focus on plants grown for the fall and winter production seasons, including mums, vegetables, poinsettias, and greenery for holiday arrangements. Student experiences will include the study of plant anatomy and physiology, greenhouse operations, and the fundamentals of production and harvesting. Students will learn how to apply scientific knowledge and skills to use plants effectively for agricultural and horticultural production. Students will discover the value of plant production and its impact on the local and global economy. Students will also participate in classroom discussion about leadership development and the National FFA Organization and continue their implementation of a supervised agricultural experience (SAE) program.

0113 Spring Horticulture

Grades 10-12

Semester Course - 1 Credit

This course provides students with a background in agricultural science as it relates to plants grown for aesthetics. This course will focus on plants grown for the spring and summer production seasons, including annuals, perennials, vegetables, and various plants for hanging basket arrangements. Student experiences will include the study of plant anatomy and physiology, greenhouse operations, and the fundamentals of production and harvesting. Students will learn how to apply scientific knowledge and skills to use plants effectively for agricultural and horticultural production. Students will discover the value of plant production and its impact on the local and global economy. Students will also participate in classroom discussion about leadership development and the National FFA Organization and continue their implementation of a supervised agricultural experience (SAE) program.

0114 Advanced Animal Science

Grades 10-12

Semester Course - 1 Credit

Prerequisite: Basic Animal Science

This course provides students with a specialization in agricultural science as it relates to animals. The species discussed in this course will include domesticated animals both small and large, with an emphasis placed on animals that serve an agricultural purpose. This course is designed to be hands-on and laboratory-based; student experiences will involve an advanced study of animal anatomy, physiology, behavior, nutrition, reproduction, health, selection, and marketing. Students will also participate in classroom discussion about leadership development and the National FFA Organization and continue their implementation of a supervised agricultural experience (SAE) program.

0115 Basic Animal Science

Grades 10 - 12

Semester Course - 1 Credit

This course provides students with a background in agricultural science as it relates to animals. The species discussed in this course will include domesticated animals both small and large, with an emphasis placed on animals that serve an agricultural purpose. This course is designed to be hands-on and laboratory-based; student experiences will involve the basic study of animal anatomy, physiology, behavior, nutrition, reproduction, health, selection, and marketing. Students will also participate in classroom discussion about leadership development and the National FFA Organization and continue their implementation of a supervised agricultural experience (SAE) program.

0116 Agricultural Processing

Grades 10 - 12

Semester Course - 1 Credit

In this course, students will complete hands-on activities, projects, and problems that simulate concepts and situations found in the food processing and biotechnology industries, allowing students to build content knowledge and technical skills, and investigate how animal and plant products in agriculture become the food, fiber, and fuel that society uses every day. Students will investigate areas of processing including food safety, food chemistry, food product development, and marketing. Students will incorporate concepts from other agricultural industries, especially animal and plant science, in a laboratory-based setting. Students will also participate in classroom discussion about leadership development and the National FFA Organization and continue their implementation of a supervised agricultural experience (SAE) program.

0117 Landscape & Floral Design

Grades 10-12

Semester Course - 1 Credit

This course provides opportunities for students to blend components of plant production within the agricultural industry with the basic principles of design and art, including balance, color, proportion, and structure. These concepts of production and art will be applied to the design, implementation, and management of arrangements created for landscaping and floriculture purposes. The course will rely heavily on hands-on projects to apply concepts in outdoor landscape management and floral arrangements for personal and commercial use. Students will also participate in classroom discussion about leadership development and the National FFA Organization and continue their implementation of a supervised agricultural experience (SAE) program.

0118 Supervised Agricultural Experience

Grades 9-12

Semester Course - 1 Credit

Optional Independent Course

Repeatable (one course per year)

Prerequisite: Teacher Approval / Freshmen must have taken Introduction to Agriculture, Food & Natural Resources

This course provides students with opportunities to explore and develop careers in agriculture, food, and natural resources (AFNR) and manage their supervised agricultural experience (SAE) program under teacher supervision. SAE programs will differ based on the student's experience level within the agricultural education program. Students new to the agricultural education program will focus on career exploration and foundational SAE projects, while more experienced students in agriculture will focus on immersion SAE projects and specialized career development. Students will relate their SAE program to their career goals within agriculture. With teacher approval, this course can be repeated at one course per academic year; students are encouraged to pursue at least one other agricultural education course during the year before registering.

0120 Agricultural Leadership

Grades 10-12

Semester Course - 1 Credit

Optional Independent Course

Prerequisite: Teacher Approval

This course is designed for higher-level students in agricultural education, and includes concepts that tie together agriculture and leadership. Students will complete hands-on activities, projects, and problems in leadership development, agricultural communications and journalism, agricultural issues, public speaking, agricultural literacy, and agricultural advocacy. A heavy emphasis will be placed on leadership both within the National FFA Organization and the broader agricultural industry. Students will also continue their implementation of a supervised agricultural experience (SAE) program.

0125 Agricultural Power & Technology

Grades 10-12

Semester Course - 1 Credit

This course exposes students to mechanics, power, technology, and career options in the world of agriculture. Students will gain experiences in various mechanical and engineering concepts with exciting hands-on activities, projects, and problems. Student experiences will involve the study of energy, tool operation and safety, material properties, machine operation, and structural components. Students will acquire the basic skills to operate, repair, engineer, and design agricultural tools and equipment. Throughout the course, students will apply the engineering principles to the construction of machines and structures. Students will also participate in classroom discussion about leadership development and the National FFA Organization and continue their implementation of a supervised agricultural experience (SAE) program.

0127 Crop Production

Grades 10-12

Semester Course - 1 Credit

This course provides students with a background in agricultural science as it relates to plants grown as crops. Student experiences will include the study of plant anatomy and physiology, classification, crop production, soil science and the fundamentals of production and harvesting. Students will learn how to apply scientific knowledge and skills to use plants effectively for agricultural production. Students will discover the value of crop production and its impact on the individual, the local, and the global economy. Students will also participate in classroom discussion about leadership development and the National FFA Organization and continue their implementation of a supervised agricultural experience (SAE) program.

ART COURSES

Maximum of two art courses per semester

0074 ART I

Length: Semester (1 credit)

Grades: 9, 10, 11, 12

Students will study the basic techniques of art while being exposed to various media. The elements and principles of design will be taught in relation to art performance and understanding.

0075 ART II

Length: Semester 2 (1 credit)

Grades: 10, 11, 12

Prerequisite: Art I

This course will include a more in-depth study using a variety of media to promote art skills. Students are encouraged to individualize the curriculum to meet their specific interests and prepare for future art courses.

0077 INDEPENDENT ART

Length: Semester 2 (1 credit)

Grades: 12

Prerequisite: Students should have taken at least 5 art courses previously and earned a minimum of a B+ in all prior art coursework.

Independent Art is for serious art seniors only. Independent Art can only be taken by seniors who have had at least five art classes. Students signing up for Independent Art should have exhausted all means of taking other art classes offered during the semester. Independent art is a course offered to further the art education of a serious art student. Curriculum is individualized to help students reach higher learning by using a variety of mediums and techniques. Independent Art is for students who are hoping to produce high quality artwork, creating a portfolio, possibly for a future in the arts. Admission into Independent Art is up to the discretion of both the art teacher and the principal and is typically only offered during an already existing class, one that the senior has already taken.

0086 DRAWING FUNDAMENTALS

Length: Semester (1 credit)

Grades: 10, 11, 12

Prerequisite: Art I

Using the various techniques of drawing in a variety of media, the student will become more skilled in drawing portraiture, figure and still life. Media to be explored will be pencil, colored pencil, ink, oil pastel, chalks, and charcoal. This course is beneficial for students who want to pursue art throughout their high school career and beyond.

0087 PAINTING FUNDAMENTALS

Length: Semester (1 credit)

Grades: 10, 11, 12

Prerequisite: Art I

The media of watercolor, acrylic, and oil paint will be included in this course of study. The use of color, design, and self-expression will also be emphasized.

0094 POTTERY FUNDAMENTALS

Length: Semester (1 credit)

Grades: 10, 11, 12

Prerequisite: Art I

The basic skills of pottery methods will be studied using hand building and the potter's wheel. This includes the pinch pot, coil construction, slab method, and wheel-thrown pots. Originality and form will be encouraged for the pottery projects.

0095 ADVANCED POTTERY

Length: Semester (1 credit)

Grades: 10, 11, 12

Prerequisites: Art I, Pottery Fundamentals

Having been introduced to various clay-building disciplines in Pottery Fundamentals, students will now develop an individual series of products aimed at producing the highest quality of work possible, focusing more on wheel throwing while continuing to expand upon their hand building technical skills.

0096 ADVANCED ART

Length: Semester (1 credit)

Grades: 12

Prerequisites: Students should have taken at least 5 art courses previously, included in those courses must be Art 1, Drawing, and Painting. Students should have earned a minimum of a B+ in all prior art coursework.

Special Weight Factor: 1.20

This course is designed to advance the art student into more challenging areas of study. It will be necessary to have the basic skills and terminology learned in Drawing Fundamentals and Painting Fundamentals. Three major concerns are addressed in this course: 1.) a sense of quality in the work, 2.) a concentration on a particular visual interest or problem, and 3.) a need for breath of experience in the formal, technical, and expressive means of the artist. Students will complete individualized assignments to create a portfolio of various medias. Advanced Art is intended for highly motivated students who are seriously interested in the study of art.

0097 DIGITAL DESIGN

Length: Semester (1 credit)

Grades: 10, 11, 12

Prerequisite: Art I or with the permission of instructor

This course explores Photoshop and the creative potential of digital graphics and media. Students develop both technical and artistic skills using computers as a creative tool to generate original images. Software includes Photoshop and Illustrator.

0099 DIGITAL IMAGING

Length: Semester (1 credit)

Grades: 11, 12

Prerequisite: Art I, Digital Design

This course features Photoshop software to create digital works of art as well as various aspects of digital photography. Students will create professional-looking works of art with a broad range of assignments and activities designed specifically for Photoshop. Students will learn how to “digitally develop” pictures to enhance the overall appearance of digital photographs.

BUSINESS EDUCATION COURSES

0139 YEARBOOK

Length: Year (2 credits)

Grades: 11, 12

Students in this class are responsible for producing the school yearbook, "The Lance", and for creating the slide show at Baccalaureate. Duties involved with yearbook production include taking digital pictures at school events throughout the year; designing layouts using Adobe EDesign; selling ads to businesses; and collecting yearbook orders. Students may take this course for up to two years.

0157 ACCOUNTING I

Length: Year (2 credits)

Grades: 10, 11, 12

Accounting I will have real world activities from real companies, challenging thinking with accountant activities, global awareness, ethics in accounting, financial literacy, and careers in accounting. This yearlong course covers the basics of T accounts to journalizing and general ledger. This is all done while working with classmates. Part 1 is a service business organized as a proprietorship; Part 2 is for merchandising business organized as a corporation. Part 3 for a merchandising business organized as a corporation, adjustments and valuation. Part 4 is accounting for partnerships and international and internet sales. Details and a love of numbers are a must.

0160 ACCOUNTING II

Length: Year (2 credits)

Grades: 11, 12

Prerequisite: Accounting I

Accounting II will expand on what was learned in Accounting I. Part 1 is departmentalized accounting. Part 2, accounting adjustments and valuation. Part 3, corporation accounting. Part 4 covers management accounting. Part 5, internal control and other organizational structures.

0162 INTRODUCTION TO BUSINESS

Length: Semester (1 credit)

Grades: 10, 11, 12

From economics to risk management and everything in between, this course will give students the basics of the business structure, Owning and operating, marketing, human resources, financial and technology, global economy, and money management. This course will give students a good foundation for all the different departments within a business. There will be class discussions on the many local businesses and global businesses As well as on how what we do here impacts the global economy. Intro to Business is for students who like to think outside of the box and make and impact in the world.

0164 SPORTS & ENTERTAINMENT MARKETING

Length: Semester (1 credit)

Grades: 10, 11, 12

This course will give the student a view about how marketing affects our decisions to purchase or not purchase products. Marketing is a billion dollar industry that everyone uses. This course will discuss projects, price, branding/ licensing, promotion, plans and careers within the sports marketing and entertainment markets.

COMPUTER TECHNOLOGY

0098 CHARGER-DIGITAL MEDIA AND DESIGN

Length: Semester (1 credit)

Grades: 11, 12

This course is designed to serve as an introduction to the basic principles of digital & social media marketing practices and the application of these practices. The class will explore the basic concepts and apply a simulation project where students will prepare a professional digital marketing plan proposal. Students will develop leadership and problem solving skills, understand the importance of making ethical decisions, develop public speaking, presentation skills, and an understanding of the business world. This course is conducted through lecture, engaging activities, group paced instruction, hands on practice, and discussion.

0150 COMPUTER SCIENCE DISCOVERIES

Length: Semester 1 (1 credit)

Grades: 9, 10

Computer Science Discoveries is a highly interactive and collaborative introduction to the field of computer science. This course takes a wide lens on computer science by covering topics such as problem solving, programming, user centered design, and data. Students build their own websites, apps, animations, games, and physical computing systems. Students create their own content to meet various design challenges, as well as implement computational solutions to problems that impact their communities. Along the way, they practice design, testing, and iteration as they come to see that failure and debugging are an expected and valuable part of the programming process.

0156 WEB DESIGN

Length: Semester (1 credit)

Grades: 10, 11, 12

This course is designed to introduce students to the creation of web pages using Adobe Dreamweaver CS5, graphics, and animations to enhance the web pages.

0165 CODING TECHNOLOGY

Length: Semester (1 credit)

Grades: 9, 10, 11, 12

This course is aimed at students with little or no programming experience. Students engage with computer science as a medium for creativity, communication, problem solving, and fun. The course inspires students as they build their own websites, apps, games, and robots. It aims to help students become confident of their ability to write small programs that allow them to accomplish useful goals. A lab-based course that uses a hands-on approach to introduce basic programming as well as problem solving strategies.

0166 COMPUTER SCIENCE

Length: Year (2 credits)

Grades: 11, 12

This course covers the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills. Once students complete this course, they will have learned material equivalent to a semester college introductory course in computer science and be able to program in JavaScript. The course utilizes a blended classroom approach. The content is fully web-based, with students writing and running code in the browser. Each unit of the course is broken down into lessons. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises, adding up to over 100 hours of hands-on programming practice in total. Each unit ends with a comprehensive unit test that assesses student's mastery of material from that unit as well as challenge problems where students can display their understanding of the material.

ENGLISH COURSES

0180 FRESHMAN ENGLISH

Length: Year (2 credits)

Grade: 9

This course combines literature and composition. It covers the structure and characteristics of the major forms of literature: biography, drama, essay, the novel, poetry and short stories. The skills needed to gather, organize, and present information in an articulate, coherent manner are taught in conjunction with the research paper requirement. Additionally, the requisite skills for reading, writing, speaking and listening effectively are reviewed and augmented in this course. We will cover thinking processes required for writing across the curriculum such as classification, comparison and contrast, cause and effect, and environmental description.

0182 HONORS FRESHMAN ENGLISH

Length: Year (2 credits)

Grade: 9

Prerequisite: Students should have had a minimum B+ in all English courses prior. Students must demonstrate at least grade level proficiency or above in Reading on the Iowa Assessment and STAR. Teacher recommendations will also be factored.

Special Weight Factor: 1.20

The Honors student should be motivated to excel in composition and reading. This course includes the information, skills, mythology and procedures listed above for Freshman English, but in greater depth and at an accelerated pace. Additional reading assignments and projects will be required. Students admitted to the course should score high on the Reading categories of the Iowa Assessments, and have the recommendation of their eighth grade Language Arts instructors.

0197 SOPHOMORE ENGLISH

Length: Semester (1 credit)

Grade: 10

This course combines literature and composition. Advanced literary terminology and techniques of interpretative analysis are stressed. Writing assignments emanate from the classical and contemporary selections read. The communication skills necessary to read, write, speak, and listen effectively are reviewed and augmented. Opportunities are provided for narrative, descriptive, and creative writing including review of grammar, spelling, and punctuation.

0198 HONORS SOPHOMORE ENGLISH

Length: Semester (1 credit)

Grade: 10

Prerequisite: Students should have had a minimum B- in Honors English, or a minimum B+ in regular English. Students must demonstrate at least grade level proficiency or above in Reading on the Iowa Assessment and STAR. Teacher recommendations will also be factored.

Special Weight Factor: 1.20

This course expands upon skills developed in Honors Freshman English by analyzing print, visual texts, and writing formal essays. Composition instruction emphasizes the creative, logical, and critical aspects of the research writing process (prewriting, drafting, revising, peer review, and publishing.) Technology is integrated into all aspects of this course. Students should be self-motivated and possess strong reading and writing skills.

0199 SPEECH

Length: Semester (1 credit)

Grade: 10

This course combines speech and composition. Both verbal and nonverbal communication skills will be learned. Competence in effective oral presentations will be the focus of this course. However, listening skills, techniques of interpretation and evaluation, and group dynamics will also be covered. The primary speeches will be informative, persuasive, and career speeches. Writing and research skills will also be reviewed and practiced because they are an integral part of effective speaking.

0211 AMERICAN LITERATURE

Length: Semester (1 credit)

Grade: 11

This course will emphasize the unique characteristics, as well as examine the historical context, of each American time period. Students will analyze the literary trends from Native American to Contemporary Literature. Students will engage a full range of literary techniques. Oral and written communication skills will be incorporated.

0212 HONORS AMERICAN LITERATURE

Length: Semester (1 credit)

Grade: 11

Prerequisite: Students should have had a minimum B- in Honors English, or a minimum B+ in regular English. Students must demonstrate at least grade level proficiency or above in Reading on the Iowa Assessment and STAR. Teacher recommendations will also be factored.

Special Weight Factor: 1.20

This course includes the information, skills, and procedures listed above for the American Literature course, but in greater depth and at an accelerated pace. Additional reading assignments and projects will be required. Students should be self-motivated and possess strong reading and writing skills.

0215 STRATEGIC READING AND WRITING

Length: Semester (1 credit)

Grades: 11, 12

The purpose of this course is to help students increase their fluency and comprehension in the areas of Reading, Writing, Speaking, and Listening. There will also be a focus on foundational writing and composition skills including grammar, mechanics, and sentence structure. We will explore different writing modalities including exposition, persuasion, technical, and entertainment.

0216 GLOBAL VOICES IN LITERATURE

Length: Semester (1 credit)

Grades: 11, 12

This is a survey course that will include Western and non-Western voices.

Students discover the cross-cultural relationship of the literary world with other disciplines such as history, ethics, and socio-economics. Major themes include topics such as faith, community, equality, and overcoming barriers. Students experience a variety of written and oral communication opportunities. This course is strongly recommended for students entering a two- or four-year college.

0223 LITERATURE FOR APPRECIATION I

Length: Semester (1 credit)

Grade: 11

This course incorporates a diversity of young adult literature to help teens explore the world through the eyes of characters their own age. The reading, writing, and discussion activities are designed to aid the students in their search for identity.

0224 ENGLISH PROFICIENCY

Length: Semester (1 credit)

Grade: 11, 12

This course is intended to assist students in acquiring the skills necessary to further develop their proficiency with basic reading, writing and comprehension.

0229 CREATIVE WRITING

Length: Semester (1 credit)

Grade: 12

In this class students will write, learn to read like a writer, and write some more. Students will write fictional children's literature, nonfiction drama and poetry. This class will examine other mediums including video, magazines, newspapers, brochures and television to explore themes of various genres for the aesthetic, cultural, and political values.

0234 THE NOVEL

Length: Semester (1 credit)

Grades: 11, 12

To help students develop strong reading and comprehension skills, this course explores key novels written by renowned authors. Students discover the cross-curricular relationship of the literary world with other areas such as history, religion, and sociology. This course is designed for college bound students or for average students who have a high rate of reading. Literary analysis is incorporated to the extent of understanding the literary forms being studied and the special techniques of individual authors. Instruction and review of composition skills are also part of this course.

0235 MASS COMMUNICATION

Length: Semester (1 credit)

Grade: 12

Mass Communication is a survey course of the print and electronic media. The history of the media will be discussed to achieve a better understanding and appreciation of the impact media has on our lives. Students will develop skills in writing, speaking, and reading by producing print media facsimiles, and recording audio and video projects. This course will focus on individual and group projects as a main source of assessment.

0245 COL Composition I - Eng 105

Length: Semester (1 credit)

Grades: 11

Prerequisite: Teacher recommendation based on previous writing skills.

Special Weight Factor: 1.20

Composition I introduces students to the college-level writing process through the construction and revision of a series of expository and persuasive essays. Students may also produce other writing appropriate to the academic and working world. Through exposure to a variety of college-level readings, the students will build critical reading skills, and students will be expected to respond to assigned readings in a variety of ways. The course introduces library and computer-based research strategies. Students will write and revise at least 4 essays and produce a minimum of 20 pages.

0247 COL Comp II - Eng 106

Length: Semester (1 credit)

Grades: 12

Prerequisite: C- or better score in COL Process of Composition I

Special Weight Factor: 1.20

Composition II is a continuation of Composition I. Students will analyze, synthesize, and evaluate texts. Effective academic research is also emphasized. Assignments may include expository and persuasive writing appropriate to academic and professional contexts. Students will write and revise three or more essays, including a research-based argument, and produce a minimum of 20 pages of prose. Academic integrity is a key expectation of this course. Prerequisite: Grade of C- or better in ENG 105

FAMILY & CONSUMER SCIENCE COURSES

0336 SEWING AND FASHION MERCHANDISING

Length: Semester (1 credit)

Grades: 10, 11, 12

Textile Analysis and Construction aims to provide students with a basic understanding of how garments are designed, constructed, and sold. The course consists of both lecture and lab work. In lecture, students will explore the color theory, elements and principles of design, and the history of fashion. Students will also properly identify different fabrics and describe proper garment care. In the lab, students will construct basic garments and accessories, using the proper stitch applications and assembly techniques. (f/k/a Fashion Design and Merchandising)

0340 EARLY CHILDHOOD GROWTH AND DEVELOPMENT

Length: Semester (1 credit)

Grades: 10, 11, 12

Early Childhood Growth & Development uses a comprehensive approach to study children from conception to age seven. Major theories and research findings in the physical, cognitive, language, and socioemotional developmental domains will be discussed in this course. The class also explores the context in which children develop, including major contextual factors, such as attachment, family systems, parenting styles, resiliency, and culture. (f/k/a Child Dev I) This course is offered as dual credit with DMACC course ECE133.

0341 MIDDLE CHILDHOOD AND ADOLESCENT DEVELOPMENT

Length: Semester (1 credit)

Grades: 10, 11, 12

The second course in the series of Child Development uses a comprehensive approach to study children from age seven to adulthood. Major theories and research findings in the physical, cognitive, language, and socioemotional developmental domains will be discussed in this course. The class also explores the context in which children develop, including major contextual factors such as attachment, family systems, parenting styles, resiliency, and culture. (f/k/a Child Dev II)

0343 FOOD PREPARATION AND HEALTH MANAGEMENT

Length: Semester (1 credit)

Grades: 9, 10, 11, 12

Introduction to Nutrition & Food Preparation includes the fundamentals of food preparation and cookery. The course consists of two components: lecture and labs. In labs, the students will implement the cooking principles discussed in lecture. The course will cover cooking techniques, material handling, heat transfer, sanitation, safety, and basic nutrition. Students will describe the process of digestion and explain the six essential nutrients role in a healthy diet. Students will also create a menu plan, modify recipes, and prepare foods that meet dietary guidelines and restrictions. (f/k/a Foods I)

0344 INTRODUCTION TO BAKING SCIENCE AND FUNDAMENTALS

Length: Semester (1 credit)

Grades: 10, 11, 12

Prerequisite: Food Preparation and Health Management

Introduction to Baking Fundamentals explores how baking, ingredients, heat, and equipment impact the quality of baked goods, pastries, and fillings. The course consists of two components: lecture and labs. In labs, the students will implement what is discussed in lecture. In labs, students will bake a variety of foods and examine how the ingredients and methods affect the final product. This course explores the topics of baking terminology, tool and equipment use, formula conversions, functions of ingredients, and the evaluation of baked products. (f/k/a Foods II)

0345 CULINARY ART SPECIALTY

Length: Semester (1 credit)

Grades: 10, 11, 12

Culinary Arts is an advanced course for students who have taken “Introduction to Baking Fundamentals” and “Introduction to Nutrition and Food Preparation.” The course integrates cooking and baking concepts to create, modify, and deconstruct advanced culinary dishes. Students will also study specialty foods and garnishes, with an emphasis on design, techniques, and display of fine foods. As part of this course, students will use created recipes and food presentation skills for the ICA Metropolitan Community College Culinary Competition team.

0346 HOUSING AND INTERIORS

Length: Semester (1 credit)

Grades: 10, 11, 12

Housing and Interiors blends the two areas of housing; consisting of residential planning, universal design, and architecture, with the interiors component, consisting of traditional, transitional, and contemporary room designs and decor. Students will also identify principles of proper furniture arrangement and describe how to select color schemes, fabrics, finishes, and accessories. In addition, the course covers an introductory overview of the history of design in furniture, interiors, and architecture and how these concepts relate to today.

FOREIGN LANGUAGE COURSES

0301 SPANISH I

Length: Year (2 credits)

Grades: 9, 10, 11, 12

Students are introduced to the language in such a way that they learn the grammar as well as how to communicate orally in the language. Students will develop skills in impromptu speaking and writing, understanding what they read and hear, and formal presentations. Students communicate about such topics as greetings, telling time, school subjects, foods, family and friends, and leisure activities. Spanish is used to conduct this class, and an emphasis is placed on becoming a competent communicator. A good, working knowledge of English grammar is an advantage to any student taking this course.

0304 SPANISH II

Length: Year (2 credits)

Grades: 10, 11, 12

Prerequisite: Spanish I

Spanish II is a continuation of Spanish I. Reading, listening, writing, and conversation receive greater emphasis in the second year. Special projects are incorporated to increase culture awareness of the Hispanic world. Active Spanish Club membership is a part of this course.

0309 SPANISH III

Length: Year (2 credits)

Grades: 11, 12

Prerequisites: Spanish I, Spanish II

Spanish III continues the study of Spanish in greater depth. More emphasis is placed upon reading, comprehension, composition and conversation. The culture and history of Spanish-speaking countries is incorporated through the introduction of literature by classic Spanish and modern Hispanic authors.

0312 SPANISH IV

Length: Year (2 credits)

Grade: 12

Prerequisites: Spanish I, Spanish II, Spanish III

Spanish IV completes the high school study of this language. Reading, comprehension, composition and conversation are enhanced through the study of the history and culture of the Spanish-speaking world. Students in this course will assume the leadership of the Spanish Club. Students will have the option of taking the AP Spanish test in order to receive possible college credit.

INDUSTRIAL EDUCATION COURSES

0361 WOODWORKING I

Length: Year (2 credits)

Grades: 9, 10, 11, 12

This course is a continuation of learning the operations of power machines. Students will be expected to know and adhere to safety regulations. Continuous testing of the safety practices is an integral part of the course. In the second semester students will be expected to work on projects that require them to employ the practices and skills they have learned. Students are expected to assume the financial obligations for materials used in their projects.

0363 WOODWORKING II

Length: Year (2 credits)

Grades: 10, 11, 12

Prerequisites: Woodworking I

This course is a continuation of learning the operations of power machines. Students will be expected to know and adhere to safety regulations. Continuous testing of the safety practices is an integral part of the course. In the second semester students will be expected to work on projects that require them to employ the practices and skills they have learned. Students are expected to assume the financial obligations for materials used in their projects.

0376 ADVANCED WOODWORKING

Length: Year (2 credits)

Grades: 11, 12

Prerequisites: Woodworking I, Woodworking II

This course is a continuation of learning the operations of power machines. Students will be expected to know and adhere to safety regulations. Continuous testing of the safety practices is an integral part of the course. In the second semester students will be expected to work on projects that require them to employ the practices and skills they have learned. Students are expected to assume the financial obligations for materials used in their projects.

0380 INDEPENDENT INDUSTRIAL ARTS

Length: Sem (1 credit)

Grades: 12

Prerequisites: a minimum of 3 industrial technology courses (including Woods, I, Woods II)

Independent Industrial Arts is for seniors with a serious interest in broadening their knowledge in the field of industrial technology. This course is offered to further the student's knowledge of industrial technology. Students that want to go into the Industrial technology trade, technical college, or 2 or 4 year degree in a field related to industrial technology. Admission into the course is up to the discretion of both the industrial technology teacher and the principal.

0381 INTRODUCTION TO CONSTRUCTION

Length: Sem (1 credit)

Grades: 9, 10, 11, 12

This course is designed to provide basic information and orientation for the construction industry. The goal is to have hand-on interaction incorporated into project based learning for most topics. You will be required to follow all safety rules while in the classroom/workshop.

0382 COMPUTER-AIDED DRAFTING & DESIGN

Length: Sem (1 credit)

Grades: 10, 11, 12

This course introduces CAD to students with an interest in the engineering or designing fields. The step-by-step instructions help the user understand the processes being used so they will be able to create their own designs. The areas of study will include: two-dimensional detail drawings, three-dimensional detail drawings, creating solid modeling, creating profiles, editing, and wire frame modeling.

0384 ADVANCED COMPUTER-AIDED DRAFTING

Length: Sem (1 credit)

Grades: 10, 11, 12

Prerequisites: Computer Aided Drafting & Design

This course builds on CAD to students with an interest in the engineering or designing fields. The step-by-step instructions help the user understand the processes being used so they will be able to create their own designs. The areas of study will include: two-dimensional detail drawings, three-dimensional detail drawings, creating solid modeling, creating profiles, editing, and wire frame modeling.

0385 ARCHITECTURAL DRAFTING

Length: Year (2 credits)

Grades: 10, 11, 12

This course provides basic information for planning various types of dwellings. It presents basic instruction in preparing architectural workings using traditional methods. It is intended to help develop the technical skills necessary to communicate architectural ideas in an understandable and accurate manner. Areas covered in the course include basic house design, room planning, foundations, schedules, and presentation drawings. Students will design and draw a complete set of plans for a house of their own choosing. Students will also be introduced to Envisioneer, an architectural computer program. Upon completion of board drafting, students will design a house using the Envisioneer program.

0378 MECHANICAL DRAFTING

Length Year (2 credits)

Grades: 10,11, 12

Drafting—Technical/Mechanical courses introduce students to and help them refine the technical craft of drawing illustrations to represent and/or analyze design specifications, using examples drawn from industrial applications. These courses are intended to help students develop general drafting skills, but place a particular emphasis on sectioning, auxiliary views, revolutions, and surface development. In these courses, students typically learn basic machining and fabrication processes as they draw schematic diagrams featuring cams, gears, linkages, levers, pulleys, and so on.

0388 CNC PROGRAMMING/ CAM

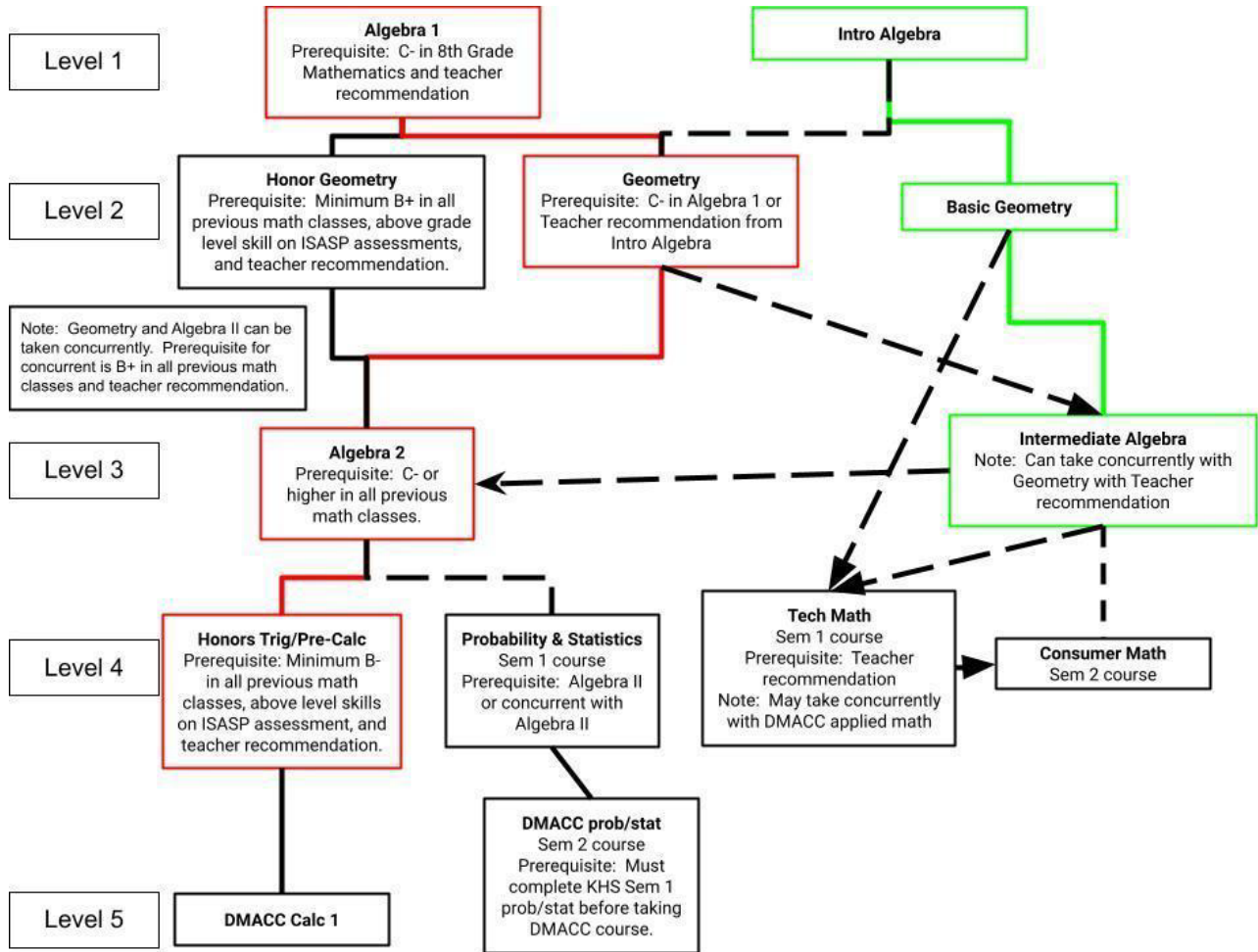
Length: Semester (1 credit)

Grades: 10, 11, 12

This course will cover machine safety, setup and operation of computer numerical control (CNC) router machine. Students will work with CAM software (Computer Aided Manufacturing) to draw solid models of parts they want to manufacture in 2D and 3D settings. This course will teach the student to write G&M code CNC programs for CNC router. The course will cover the most common G&M codes for machines, including linear and circulator interpolation, drilling hole making, roughing and finishing. The Student will be able to write and troubleshooting programs for a CNC router and draw solid parts using software and computer. This course is ideal for those looking into engineering and manufacturing industry fields.

MATHEMATICS COURSES

There are 5 levels available to follow along for 4 year course planning in the math department.



Length: Year (2 credits)

Grade: 9

This course is designed to review computation skills with algebraic concepts. A thorough coverage of fundamental arithmetic concepts and skills are provided as well as other topics transitional to entering Geometry. These are number theory, graphing, solving equations, inequalities, exponents, and real numbers. A calculator is required.

0408 ALGEBRA I

Length: Year (2 credits)

Grades: 9, 10, 11, 12

This course deals with concepts such as, the real number system, operations on the real numbers, solving and graphing equations in one and two variables, polynomials and factoring, systems of equations and inequalities, properties of exponents and radicals. A calculator is required.

0402 BASIC GEOMETRY

Length: Year (2 credits)

Grades: 10, 11, 12

Prerequisite: Intro to Algebra or Algebra I

This course gives the students an insight into mathematical structures and develops deductive & inductive reasoning at a basic level. Properties of planes, lines, angles, triangles, other polygons, and circles are studied. Principles of logic, area and volume, constructions and coordinate geometry are also included. Highlighters are required. A compass and geometer are provided. A calculator is required.

0410 GEOMETRY

Length: Year (2 credits)

Grades: 9, 10, 11, 12

Prerequisite: Algebra I

This course gives the students an insight into mathematical structures and develops deductive & inductive reasoning. Properties of planes, lines, angles, triangles, other polygons, and circles are studied. Principles of logic, area and volume, constructions and coordinate geometry are also included. Highlighters are required. A compass and geometer are provided. A calculator is required.

0420 HONORS GEOMETRY

Length: Year (2 credits)

Grades: 9, 10, 11, 12

Prerequisite: Algebra; Students should have had a minimum B+ in all math classes previously. Should show above grade level skill in math on Iowa Assessments. Teacher recommendation

Special Weight Factor: 1.20

Topics included are those listed for Geometry; however, students will be challenged to understand the course at a higher level. Students will also be challenged by the increased use of technology and student-led inquiry. The instructor is a facilitator much of the time. Students must be organized and self-motivated.

0423 CONSUMER MATH

Length: Sem (1 credit)

Prerequisite: Algebra I or Intro to Algebra, and sem 1 of Intermediate Algebra

Consumer math reinforces general math topics (arithmetic using rational numbers, measurement, ratio and proportion, and basic statistics) and apply these skills to consumer problems and situations. Applications typically include budgeting, taxation, credit, banking services, insurance, buying and selling products and services, home and or car ownership and rental, managing personal income and investment.

0424 INTERMEDIATE ALGEBRA

Length: Year (2 credits)

Grades: 11, 12

Prerequisites: Algebra I or Intro to Algebra

This course reviews the concepts learned in Algebra, introduces new Algebra concepts, and expands into some topics in Algebra II. Students will develop skills that will enable them to solve various problems that may be encountered on college entrance exams (ACT or SAT), at home, or at the workplace. A calculator is required.

0426 ALGEBRA II

Length: Year (2 credits)

Grades: 10, 11, 12

Prerequisites: Algebra I may take concurrent with Geometry

This course is based on the real number system and begins by reviewing the essentials learned in Algebra. Linear and quadratic functions and relations are studied and graphed. Students become familiar with the complex number system and with the properties of exponents and radicals. Students will also explore the use of logarithms in problem solving, using Trig functions in solving right triangles, Trig identities, and formulas. Students will develop skills that will enable them to solve various problems that may be encountered on college entrance exams (ACT or SAT), at home, or at the workplace. A calculator is required.

0428 TECHNICAL MATH

Length: Semester (1 credit)

Grades: 11, 12

Prerequisite: Geometry or basic geometry

Note: This course meets during Semester 1 and can be taken concurrently with DMACC applied math.

This course covers math concepts that students may use in occupational and trade settings, equipping them with a solid foundation of the math needed for a variety of technical and vocational trades. The math concepts are presented completely within the context of practical on-the-job applications, including electrical, plumbing, and construction trades.

0429 PROBABILITY & STATISTICS

Length: Semester (1 credit)

Grades: 11, 12

Prerequisites: Algebra II or concurrent with Algebra II

Note: This course meets during Semester 1

The purpose of the course is to acquaint students with the fundamentals of probability and statistics - the science of decision making in the face of uncertainty. This course will present basic ideas and methods used in the decision-making process. This is pertinent to the natural and social sciences, education and business. There will be two main areas of study - probability and statistics. Probability will cover counting principles, combination, permutations, random samples, independent and dependent events. Statistics will cover formulating data, frequency distribution, mean, mode, deviation, linear relations and methods of interpreting data. A scientific calculator is required.

0431 HONORS TRIGONOMETRY/PRE-CALCULUS

Length: Year (2 credits)

Grades: 11, 12

Prerequisite: Algebra II; Students should have had a minimum B- in honors Math Classes previously, or B+ in regular math. Should show above grade level skill in math on Iowa Assessments.

Special Weight Factor: 1.20

This course is an advanced level mathematics course which furthers the concepts studied in previous Algebra and Geometry classes. The pace is accelerated and students are challenged to understand the course at a high level of understanding to prepare them thoroughly for AP Calculus. Topics included are linear functions, solving equations, graphing, quadratic functions, polynomial functions, complex numbers, exponential and logarithmic functions, inverse relations and functions, rational functions and inequalities, vectors, and trigonometry. A TI-89 calculator is required.

MUSIC COURSES

0499 CHORUS

Length: Semester (1 credit)

Grades: 9, 10, 11, 12

Students are instructed in the techniques of choral singing. Various styles of music are explored and performed. Students are eligible for participation in cocurricular vocal music, including OPUS, Jazz Choir, All State Auditions, Solo/Ensemble Contest, and Large Group Contest. One partial period per week is required for small group or private lessons.

0501 BAND

Length: Semester (1 credit)

Grades: 9, 10, 11, 12

Band is a performance-oriented course. Students are instructed in the techniques of playing a musical instrument, either wind or percussion, and are provided the opportunity to perform with the various instrumental ensembles of the school. Included are concert band, pep band, field and street marching, jazz band, as well as small ensembles and solo experience. Some ensembles, including marching and jazz bands, rehearse prior to the start of the school day. One additional partial period per week is required for group or individual lessons.

0510 MUSIC THEORY

Length: Semester (1 credit)

Grades: 10, 11, 12

This course is intended for students interested in the basic mechanics of music composition. It is designed for those who do not have an instrumental background yet want to enroll in AP Music Theory or want basic music composition skills. This course will introduce pitch names for the treble and bass clef, pitch duration, major/minor modes, basic chord structures, pitch intervals, and rhythmic and melodic notation.

0512 AP MUSIC THEORY

Length: Year (2 credits)

Grades: 11, 12

Prerequisite: Music Theory or Music Proficiency Test

Special Weight Factor: 1.20

This course is intended for the student who is interested in music more than singing or the playing of an instrument. The “nuts and bolts” of music are explored and students are encouraged to experiment with their own compositional endeavors. The class will undertake a comprehensive survey of harmonic materials, from the simple triad, through seventh chords, altered chords, ninth, eleventh, and thirteenth chords, and simple and complex methods of modulation. In addition to the theoretical presentation, a comprehensive practical application of these harmonic materials is presented. Concurrent studies in melodic and rhythmic analysis and composition, in harmonic analysis, and in analysis of form implement this application. Listening skills will also be developed through ear training and sight singing.

PHYSICAL EDUCATION / HEALTH COURSES

0670 HEALTH I

Length: Semester (1 credit)

Grades: 9, 10

This course is intended to promote healthy lifestyles for students now and in the future. Areas of study will include physical, mental, and social health. By taking this course, students will be encouraged to make healthier choices in their daily routines.

0671 HEALTH II

Length: Semester (1 credit)

Grades: 10, 11, 12

This course is a continuation of Health I. It is intended to promote healthy lifestyles for students now and in the future. Areas of study will include consumer health, health career education, first aid and safety, the effects of drugs and alcohol, diet, nutrition, and exercise.

0679 PE/ AEROBICS

Length: Semester (.50 credit)

Grades: 9, 10, 11, 12

Fitness/Conditioning Activities courses emphasize conditioning activities that help develop muscular strength, flexibility, and cardiovascular fitness.

0681 STRENGTH TRAINING

Length: Semester (.50 credit)

Grades: 9, 10, 11, 12

This course offers an opportunity to improve strength, conditioning, and flexibility. Knowledge of when to lift, why to lift, and how to lift is covered during this course.

0683 PE

Length: Semester (.50 credit)

Grades: 9, 10, 11, 12

Physical education classes meet three periods a week. All classes are co-educational. Grading procedures will follow the handbook letter grade scale. By the end of high school, the learner will be college or career ready as demonstrated by the ability to plan and implement different types of personal fitness programs; demonstrate competency in two or more lifetime activities; describe key concepts associated with successful participation in physical activity; model responsible behavior while engaged in physical activity; and engage in physical activities that meet the need for self-expression, challenge, social interaction, and enjoyment. (Shape America; Iowa Code Section 256.9A)

0685 PE WEIGHT LIFTING (meets before school)

Length: Semester (.50 credit)

Grades: 9, 10, 11, 12

Note: This course may be taken both semesters. This class is for early risers. It begins at 6:30 a.m. daily (twice per week is mandatory). It offers an opportunity to improve strength, conditioning, and flexibility. Knowledge of when to lift, why to lift, and how to lift is covered during the course.

SCIENCE COURSES

0709 PHYSICAL SCIENCE

Length: Year (2 credits)

Grade: 9

In this course, students will examine the physical world around them. Topics covered include chemistry, physics, earth science, and space science. Students will be able to use physical, theoretical, and mathematical models to demonstrate their knowledge. Assignments include labs, quarterly projects, reports, discussions, current events, and more. Students will need a calculator.

0711 HONORS PHYSICAL SCIENCE

Length: Year (2 credits)

Grade: 9

Prerequisite: Students should have had a minimum B+ in all science classes previously. Should show above grade level skill in science on Iowa Assessments. Teacher recommendation.

Special Weight Factor: 1.20

In this course, students will examine the physical world around them on a more in depth level. This class will look at the world around them and gain a better understanding of everyday life through physical science. Topics covered include chemistry, physics, earth science and space science. Students will be able to use physical, theoretical, and mathematical models to demonstrate their knowledge. Assignments include labs, quarterly projects, exams, discussions, current events, and more. Students will need a calculator, a 3-ring binder for current events and a notebook.

0713 BIOLOGY

Length: Year (2 credits)

Grades: 10, 11, 12

Biology is the study of life. This course includes an introduction to the scientific method, cytology, genetics, zoology, ecology, taxonomy, evolution, chemistry, and microbiology. Students will engage as scientists asking questions about the natural world using observation and experimentation to make explanations of the interrelationships of all living things.

0717 HONORS BIOLOGY

Length: Year (2 credits)

Grades: 10, 11, 12

Prerequisite: Students should have had a minimum B+ in all regular science classes previously or B- in honors science. Should show above grade level skill in science on Iowa Assessments. Teacher recommendation.

Special Weight Factor: 1.20

Honors biology is designed for students seeking to study life science in greater depth and with a higher level of understanding. This course is focused on questioning and understanding natural phenomena of living organisms. Areas of study include levels of biological organization, cytology, genetics, zoology, ecology, evolution, biochemistry, microbiology and the social implications of these biological interactions. Emphasis is placed on communication, collaboration, and problem-solving to make sense of how science works with practice in written and verbal scientific argument of making claims, evaluating evidence from multiple sources and developing complex reasoning.

0721 HON HUMAN BIOLOGY

Length: Year (2 credits)

Grade: 12

Prerequisites: Biology or Honors Biology, Chemistry Recommended: Algebra and Geometry; Students should have had a minimum B+ in all regular science classes previously or B- in honors science. Should show above grade level skill in science on Iowa Assessments.

Special Weight Factor: 1.20

This course covers the structure and function of the human body. Students will take an in-depth look at the interacting systems of the human body to gain knowledge and understanding of the body's complexity.

Anatomical terminology will be studied and integrated throughout all units. Dissection and case studies are part of the laboratory experience. This course is intended for, but not limited to students who have career plans in health fields, biotechnology, or other life science areas.

0723 METEOROLOGY

Length: Sem (1 credit)

Grades: 10, 11, 12

Prerequisites: Currently enrolled in another science class in grades 10-12

Students in this course will study and learn how meteorologists monitor the weather using weather maps, satellites, radar, and physical and observational measurements of the atmosphere and sky. Students will also study the atmosphere's origin, composition, and structure, and terrestrial radiation, heat, and temperature, climate, air pressure, humidity, saturation, and stability, clouds, precipitation, wind, air masses, fronts, cyclones, anticyclones, thunderstorms, tornadoes, hurricanes and weather forecasting techniques. In addition, scientific reasoning, the scientific method, graphing, and the metric system will be taught.

0724 BIOTECHNOLOGY

Length: Sem (1 credit)

Grades: 11, 12

Prerequisites: Biology or Honors Biology

Biotechnology is a course designed to give students a comprehensive introduction to the scientific concepts and laboratory research techniques currently used in the field of biotechnology. Students attain knowledge about the field of biotechnology and deeper understanding of the biological concepts used. In addition, students develop the laboratory, critical thinking, and communication skills currently used in the biotechnology industry. Furthermore, students will explore and evaluate career opportunities in the field of biotechnology through readings, laboratory experiments, class discussions, research projects and guest speakers. The objectives covered in this course are both academic and technical in nature and are presented in a progressively rigorous manner.

0727 FORENSICS

Length: Sem (1 credit)

Grades: 11, 12

Prerequisites: Physical Science and Biology

This course is designed to challenge students with topics such as fingerprinting, DNA analysis, blood typing and spattering, trajectories (for ballistics as well as blood spattering,) comparative anatomy, and chemical analysis of drugs, poisons, and trace evidence and the dynamics of physics. Students will learn about the careers involved with forensic science and will play mock roles as experts in the field to solve crimes. Students will learn teamwork in solving the mock crimes and have a chance to change their roles as the year progresses. The students will be given the tools to interpret data and techniques involved for physical, chemical and biological analysis of evidence.

0730 CHEMISTRY

Length: Year (2 credits)

Grades: 11, 12

Prerequisites: Algebra

This is an inquiry- and activity-oriented course, and it covers the basic principles of chemistry. Students are expected to understand matter and its interaction with other forms of matter. Students will write equations for matter's interactions and understand the mathematical relations present. Students will see energy as a force in chemistry.

0732 HONORS CHEMISTRY

Length: Year (2 credits)

Grades: 11, 12

Prerequisites: Algebra; Students should have had a minimum B+ in all regular science classes previously or B- in honors science. Should show above grade level skill in science on Iowa Assessments. Teacher recommendation.

Special Weight Factor: 1.20

This is an inquiry- and activity-oriented course, based on a group-oriented learning approach of the basic principles of chemistry. Honors Chemistry has expectations greater than Chemistry in the breadth and depth of understanding of scientific principles.

0740 ADVANCED STUDIES IN CHEMISTRY

Length: Year (2 credits)

Grades: 12

Prerequisites: 1st year chemistry. This is a preparatory course for those pursuing a science related field in college.

Special Weight Factor: 1.20

Advanced Studies in Chemistry covers chemical properties and interactions in more detail. Advanced chemistry topics include organic chemistry, thermodynamics, electrochemistry, macromolecules, kinetic theory, and nuclear chemistry.

0736 PHYSICS

Length: Year (2 credits)

Grade: 12

Prerequisites: Algebra II (or concurrent)

This course is a study of matter and energy and the relationship between them. Some of the specific units involve motion, mechanics, light, and electromagnetism. This course is designed to help students increase their appreciation and knowledge of the physical world. The mathematical and problem solving aspects of physics are emphasized. This course is intended for, but not limited to, students who are interested in engineering, technical fields law, medicine and other science and related professional fields. Students wishing to take COL Physics second semester must take first semester Physics.

SOCIAL SCIENCE COURSES

0802 U.S. HISTORY

Length: Year (2 credits)

Grade: 9

This course studies our American past from exploration to the present. After a survey of the major topics prior to 1900, emphasis is placed on the 1900 to the present period. The relationship between political, economic, and social development within our country and our increased world responsibility is explored. Topical and inquiry methods are used. Concepts and cause-effect relationships are stressed.

0807 HONORS US HISTORY

Length: Year (2 credits)

Grade: 9

Prerequisite: Students should have had a minimum B+ in all social studies classes previously. Should show above grade level skill in social studies on Iowa Assessments. Teacher recommendation.

Special Weight Factor: 1.20

This course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States History. The aim is to provide the students with a learning experience equivalent to that obtained in most college introductory United States History courses. Our approach is to conduct a survey course using a textbook, along with supplementary readings in the form of documents, essays, and books on special themes.

0815 WORLD HISTORY

Length: Year (2 credits)

Grade: 11

The World History course provides students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural developments.

0818 HONORS WORLD HISTORY

Length: Year (2 credits)

Grade: 11

Prerequisite: Students should have had a minimum B+ in all social studies classes previously. Should show above grade level skill in social studies on Iowa Assessments. Teacher recommendation.

Special Weight Factor: 1.20

The World History course provides students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural developments.

0806 GLOBAL STUDIES

Length: Semester (1 credit)

Grade: 12

This course is designed to give the student a global perspective by examining cultural regions of the world. The students will explore and analyze the geography, history, economy, religion/philosophies, values systems, cultural factors (language, art, music), and contemporary issues for each region. The goal of the course is to prepare students for the ever-growing interdependence of the world in which they will live and work, and to help prepare them for their responsibilities as participating citizens of the global society in the 21st century.

0831 U.S. GOVERNMENT

Length: Semester (1 credit)

Grade: 12

This course deals with the three major branches of government, both as they operate independently, and as they affect local governmental units. Attention will be given to the changing nature of the Presidential office, the powers of present-day Congress and the widening influence of the Supreme Court. In addition, an in-depth study is made of local government that includes city, county, and state.

0809 Honors U.S. GOVERNMENT AND POLITICS

Length: Semester (1 credit)

Grade: 12

Prerequisite: Students should have had a minimum B+ in all social studies classes previously, or a B- in Honors US history. Should show above grade level skill in social studies on Iowa Assessments. Teacher recommendation.

Special Weight Factor: 1.20

This course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts and specific case studies. Topics generally covered in college U.S. Government courses make up the emphasis of the course. In May, students may take the AP US Government and Politics test. Scoring well on this test can result in college credit. Cost of the test is \$85.

0834 HISTORY THROUGH FILM

Length: Semester (1 credit)

Grades: 10, 11, 12

Prerequisite: Students should have maintained a minimum C average for all prior social studies courses.

This semester length course studies the way that we can learn history through film. Perspective, accuracy, and content will be analyzed for a variety of films to examine how events and time periods are portrayed in theater. Analytical writing and note taking is to be expected as a key role in this course.

0840 CURRENT ISSUES

Length: Semester (1 credit)

Grades: 10, 11, 12

This course will focus on important contemporary social, cultural, and political issues. Topics include crime and criminals, American minorities, immigration, hunger and poverty, health and social issues. In addition to these formal units of study, the highlights of U.S. and World News are discussed each week in an effort to keep abreast of current events. A discussion of current events and personalities will help students understand the impact of issues on society and on themselves. An understanding of these issues will better enable them to make wise decisions as the adults of tomorrow.

0845 CONSUMER FINANCE

Length: Semester (1 credit)

Grades: 11, 12

Students who take Consumer Finance will learn about the topics of credit, money management, and risk management. The material covered in this class will be beneficial to any students whether in their personal life and/ or for future study of these topics and career.

THEOLOGY COURSES

0879 THE BIBLE

Length: Semester (1 credit)

Grade: 9

This course provides an introduction to the Sacred Scriptures and to the unfolding of salvation history, with a particular focus on Jesus Christ as the fulfillment of salvation history. Revelation, both divine and natural, is explored, as are inspiration, interpretation, and exegesis.

0880 WHO IS JESUS CHRIST?

Length: Semester (1 credit)

Grade: 9

This course leads the students toward a deeper understanding of divine Revelation, the Trinity, the incarnation, Jesus, salvation, and discipleship as a response to God's love.

0881 THE PASCHAL MYSTERY

Length: Semester (1 credit)

Grade: 10

The goodness of creation, Original Sin, and the promise of a messiah are the starting points for this course, which explores our salvation through the Paschal Mystery. The students encounter the mystery and glory of the suffering, death, Resurrection, and Ascension of Jesus Christ. This course also explores how the Paschal Mystery informs our daily lives, our prayer, and our participation in the life of the Church.

0888 HONORS PASCHAL MYSTERY

Length: Semester (1 credit)

Grade: 10

The goodness of creation, Original Sin, and the promise of a messiah are the starting points for this course, which explores our salvation through the Paschal Mystery. The students encounter the mystery and glory of the suffering, death, Resurrection, and Ascension of Jesus Christ. This course also explores how the Paschal Mystery informs our daily lives, our prayer, and our participation in the life of the Church.

0882 THE CHURCH

Length: Semester (1 credit)

Grade: 10

This course guides the students in exploring and understanding the Catholic Church, as well as its origin, structure and mission. Additionally, the course addresses the roles of the hierarchy, those in religious life, and the laity in supporting the mission of the Church as a light to all people.

0889 HONORS CHURCH

Length: Semester (1 credit)

Grade: 10

This course guides the students in exploring and understanding the Catholic Church, as well as its origin, structure and mission. Additionally, the course addresses the roles of the hierarchy, those in religious life, and the laity in supporting the mission of the Church as a light to all people.

0883 CHRISTIAN MORALITY

Length: Semester (1 credit)

Grade: 11

This course addresses how a relationship with Christ and the Church can lead to choices that are in accordance with God's plan. The students learn what it means to live a Christian moral life, how to assess and respond to moral dilemmas, and the importance of living in communion with God and others.

0884 HONORS CHRISTIAN MORALITY

Length: Semester (1 credit)

Grade:11

Prerequisite: Students should have had a minimum B+ in all theology classes previously. Should show above grade level skill in reading on Iowa Assessments and STAR. Teacher recommendation.

Special Weight Factor: 1.20

This course addresses more deeply how a relationship with Christ and the Church can lead to choices that are in accordance with God's plan. Honors coursework will include more reading and primary source analysis. The students learn what it means to live a Christian moral life, how to assess and respond to moral dilemmas, and the importance of living in communion with God and others. Students will complete four (4) acts of Christian Service during the semester.

0906 THE SACRAMENTS

Length: Semester (1 credit)

Grade: 11

The focus of this course is to help the students to learn about the Seven Sacraments, especially the Eucharist, in order to enable them to more fully participate in them. This course also explores the history, scriptural foundation, and current practices of the sacraments.

0885 HONORS SACRAMENTS

Length: Semester (1 credit)

Grade: 11

Prerequisite: Students should have had a minimum B+ in all theology classes previously or B- in honors. Should show above grade level skill in reading on Iowa Assessments and STAR. Teacher recommendation.

Special Weight Factor: 1.20

The focus of this course is to help the students to learn about the Seven Sacraments, especially the Eucharist, in order to enable them to more fully participate in them. Honors coursework will include more reading and primary source analysis. This course also explores the history, scriptural foundation, and current practices of the sacraments. Students will complete four (4) acts of Christian Service during the semester.

0908 CHRISTIAN LIFESTYLES (Catholic Social Teaching)

Length: Semester (1 credit)

Grade: 12

This course provides students the opportunity to apply their religious education and Christian values to life experiences they will encounter as they enter adulthood. Students will explore the following life experiences in light of the Christian perspective: self-identity, American and Christian values, the media, careers, money, suffering, relationships, sexuality, marriage, vocations, and parenting. Students will complete a Capstone Project during the year.

0886 HONORS CHRISTIAN LIFESTYLES

Length: Semester (1 credit)

Grade: 12

Prerequisite: Students should have had a minimum B+ in all theology classes previously or B- in honors. Should show above grade level skill in reading on Iowa Assessments and STAR. Teacher recommendation.

Special Weight Factor: 1.20

This course provides students the opportunity to apply their religious education and Christian values to life experiences they will encounter as they enter adulthood. Honors coursework will include more reading and primary source analysis. Students will explore the following life experiences in light of the Christian perspective: self-identity, American and Christian values, the media, careers, money, suffering, relationships, sexuality, marriage, vocations, and parenting. Students will complete a Capstone Project during the year.

0909 VOCATIONS

Length: Semester (1 credit)

Grades: 12

In this course, the students will be given the opportunity to learn more about God's call to the various members of His Church, and will be helped to discern God's call to each one of them as unique individuals. Students will recognize the importance of complying their wills with that of God's, for only by doing so can one experience true joy and genuine happiness. Students will complete a Capstone Project during the year.

0887 HONORS VOCATIONS

Length: Semester (1 credit)

Grades: 12

Prerequisite: Students should have had a minimum B+ in all theology classes previously or B- in honors. Should show above grade level skill in reading on Iowa Assessments and STAR. Teacher recommendation

Special Weight Factor: 1.20

In this course, the students will be given the opportunity to learn more about God's call to the various members of His Church, and will be helped to discern God's call to each one of them as unique individuals. Honors coursework will include more reading and primary source analysis. Students will recognize the importance of complying their wills with that of God's, for only by doing so can one experience true joy and genuine happiness. Students will complete a Capstone Project during the year.

LIFE SKILLS COURSE

913 LIFE SKILLS

Length: Year (2 credits)

Grade: 9

Topics covered include: exploring the basic skills necessary to maintain personal, physical, and mental health (alternative strategies for dealing with stress); analyzing strategies for developing a positive self-concept; demonstrating alternative ways of effective communication; describing ways to build good interpersonal relationships with others; developing short- and long-term planning, goal-setting, and decision making skills; developing problem-solving techniques; identifying ways to deal with peer pressure; and develop educational strategies to achieve academic success.

2023-2024 DMACC Course Options

DMACC Course	High School Credits	semester offered	# of KHS periods
Calculus I	2	Fall	1
Speech	1	Fall or Spring	1 or 2 (depends on section)
Intro to Sociology	1	Fall	2
Intro to Gen. Chemistry	1	Fall	1
Intro to Human Services	1	Fall	1
Intro to Health Careers	1	Fall	1
Interpersonal Relations	1	Spring	2
Medical Terminology	1	Spring	1
Calculus II	2	Spring	1
Statistics	1	Spring	2
Discrimination & Diversity	1	Spring	2
General Physics	2	Spring	2
Work Based Learning	2	Fall or Spring	2
CNA/Advanced CNA	1	Fall or Spring	Outside of School Day
Auto Year I	2 per semester	Year Long	2 per semester
Auto Year 2	2 per semester	Year Long	3 per semester
Applied Engineering	2 per semester	Year Long	3 per semester
Welding	2 per semester	Year Long	2 per semester
Computer Languages Year 1	2 per semester	Year Long	1 per semester
Computer Languages Year 2	2 per semester	Year Long	1 per semester
Teacher Academy	2 per semester	Year Long	2 per semester
Templeton Academy	2 per semester	Year Long	2 per semester?

Intro to General Chemistry requires a minimum ALEKS score of 30 or math ACT score of 19

Statistics requires completion of College Prep Math or min ALEKS of 30

Calculus required min ALEKS of 76

****Course dates/times subject to change. All of these course fees are covered by CCSD.**

Online course options through DMACC:

Students may choose from preapproved online course offerings through DMACC as a scheduled study period during the school day. Students may **not** register for a course already offered at Kuemper.

Online course options can be viewed here: <https://www.dmacc.edu/schedule/Pages/welcome.aspx>

Please be sure to select “online” for location.

Seat availability and prerequisite information (if applicable) is listed by courses.

Students must register through the high school to receive dual credit and the reduced rate.

Dual Credit Courses Taught at Kuemper/CHS

DMACC- Comp I	KHS	\$0
DMACC- Comp II	KHS	\$0
DMACC - Psychology	KHS	\$0
DMACC Western Civilization	CHS	\$0

DMACC Course Descriptions:

Applied Engineering: Students are provided with the basics of general electricity, motor control, hydraulics, and pneumatics in this tech prep program. A total of 10 DMACC credits are available upon completion of all DMACC Career Academy course offerings.

Auto: The Automotive Technology program is designed to prepare students for employment in the automotive service industry. This technological program allows students to gain experience with shop tools, automotive engines, brakes, suspension, and alignment. 12 DMACC credits are available upon completion of first-year DMACC Career Academy course offerings. A second year provides students with an additional 13 DMACC credits.

Calculus I: Introduction to limits, continuity, differentiation, applications of the derivative, the definite and indefinite integral, numerical integration, exponential and logarithmic functions, other transcendental functions and introduction to differential equations. Requires minimum ALEKS score of 76% or MAT121, MAT129 or MAT130 with a C- or better. Must also successfully complete high school Honors Trig/Pre-Calc. Worth 5 DMACC credits.

Calculus II: Continuation of Calculus I. Topics include applications of integration, integration techniques, L'Hopital's rule, improper integrals, infinite sequences, series, Taylor and Maclaurin series, the calculus of plane curves, parametric equations and polar equations. Must complete Calculus I with C- or better. Worth 5 DMACC credits.

CNA/Advanced CNA: Entry level skills to seek employment in Iowa skilled facilities. Course requires extended clinical sessions in evenings and/or weekends. Restrictions may apply. Requires criminal/abuse background check, immunization form as required by clinical site, and flu vaccine (October-April). Students will earn 3 DMACC credits per CNA course.

Composition I: Introduces students to the college-level writing process through the construction and revision of a series of expository and persuasive essays. Students may also produce other writing appropriate to the academic and working world. Through exposure to a variety of college-level readings, the student will build critical reading skills, and students will be expected to respond to assigned readings in a variety of ways. The course introduces library and computer-based research strategies. Students will write and revise at least 4 essays and produce a minimum of 20 pages. This class is worth 3 DMACC credits.

Composition II: Continuation of Composition I. Students will analyze, synthesize, and evaluate texts. Effective academic research is also emphasized. Assignments may include expository and persuasive writing appropriate to academic and professional contexts. Students will write and revise three or more essays, including a research-based argument, and produce a minimum of 20 pages of prose. Must complete Composition I with C- or better. Worth 3 DMACC credits.

Computer Language Academy: This academy meets virtually every day. Students are provided a foundation of computer science and programming courses that will prepare them to create business solutions by designing, writing, and executing computer programs. A total of 24 DMACC credits can be earned in this academy. Upon completion of both years, students will earn certificates in C# Application Developer and Java Application Developer. The courses also apply towards the diploma and associate's degree.

Discrimination & Diversity: This course will address theoretical and historical perspectives on racism, sexism, and other forms of discrimination; applications to social work, culturally competent practice, change strategies, and intercultural communication strategies. Students will explore and process their own personal prejudices and biases in class. Students will learn skills to increase cultural competency and work effectively with persons from diverse backgrounds. This class is worth 3 DMACC credits.

General Physics: This course is a continuation of high school physics in a two-semester sequence. Topics include forces, linear and rotational motion, energy, momentum, fluids, gasses and heat. Students will earn 5 DMACC credits.

Interviewing/Interpersonal Relation: Study of interviewing theories including roles and relationships between the interviewer and the interviewee. Methodology of developing questions,

conducting interviews, recording data and analyzing it, and writing assessments and histories are emphasized. This course is 3 DMACC credits.

Intro to General Chemistry: A study of the concepts of general chemistry, including atomic structure, bonding, reactions, stoichiometry, gas laws, solutions, acids and bases, equilibrium, and nuclear chemistry. Problem-solving is emphasized. Minimum ALEKS of 30% or minimum ACT score of 19, or MAT063 or MAT 064 with a C- or better are required. This course is 4 DMACC credits.

Intro to Health Careers: Students will discover the many options available, including roles and responsibilities in health career options. This course is designed to provide the student with the information necessary to make their health career choice. This course is worth 3 DMACC credits.

Intro to Human Services: History and introduction to the social welfare institution. Theoretical perspectives, concepts, values and intervention strategies are examined. Systems theory is used to explore legislation and services designed to meet client needs. This class is 3 DMACC credits.

Intro to Sociology: The study of human interaction, groups and society. Topics included are culture, socialization, organizations, deviance, inequality, institutions, health, population, ecology, social change and research methods. This course is 3 DMACC credits.

Medical Terminology: Build a medical vocabulary through an understanding of anatomic roots for words denoting body structure, prefixes, suffixes, and body functions. This course is worth 3 DMACC credits.

Psychology: A survey of psychology including theoretical and experimental findings and applications from areas such as neurobiology, learning, memory, personality, social, abnormal, and therapy. Students will earn 3 DMACC credits.

Speech: Explores the fundamentals of oral communication through the study and practice of interpersonal and small group communication and the composition and delivery of short speeches. This course is 3 DMACC credits.

Statistics: Tabular and graphical presentation, measures of central tendency and variability, standard elementary procedures, including the binomial, normal, student's T, chi-square and F distributions, correlation, regression, analysis of variance and several nonparametric procedures. Must have minimum ALEKS of 30% or MAT064 with C- or better. This course is worth 3 DMACC credits.

Teacher Academy: This year-long academy will prepare students for a future career in education. Courses included are Foundations of Education, Exploring Careers, Developmental Psychology, Initial Field Experience, Electronic Portfolio Development, and Educational Psychology.

Templeton Academy: This career academy will provide students exposure to several skilled trades including welding, advanced manufacturing, maintenance, electrical tech, and construction trades. Upon completion of this year-long academy, students will have the opportunity to enroll in one of

the specialized trades areas the following year. 17 DMACC credits are available upon completion of all courses.

Welding: This program allows students to engage in experiential learning in the area of welding. Students will earn a Production Welding Certificate upon completion of all DMACC Career Academy course offerings. Students will receive 11 DMACC credits.

Western Civilization: The student surveys the great civilizations from Greece & Rome, through the rise of Christianity, to Europe in the Middle Ages, the Renaissance and Reformation, the modern state, the new science and secular outlook, parliamentary government in England and political absolutism in France and Eastern Europe. Students will receive 4 DMACC credits.

Work Based Learning (Internship): In this academy, students will explore different career options, learn about job placement procedures, and participate in a seminar that examines current work trends and issues. All students are given the opportunity to receive work experience in various industries. Students will receive 4 DMACC credits.