

MORAVIA PROGRAM OF STUDIES 2025-2026



MORAVIA
JR. SR.
HIGH SCHOOL



Welcome to the Moravia Community School District!



Moravia Community School District

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EQUITY STATEMENT

It is the policy of the Moravia Community School District not to discriminate on the basis of race, color, national origin, sex disability, religion, creed, age, marital status, sexual orientation, gender identity, and socioeconomic status in its educational programs, activities, or employment practices. There is a grievance procedure for processing complaints of discrimination. If you have questions or a grievance related to this policy, please contact Sam Swenson, 505 N. Trussell Avenue, Moravia, IA 52571, 641-724-3241 or email @ sam.swenson@moraviaschools.com.

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COURSE DESCRIPTIONS

English Department
Social Studies Department
Mathematics Department
Science Department
Physical Education / Health
MORAVIA VOCATIONAL PROGRAMS
Agriculture Education Department
Industrial Technology Department
Business/Computer Education Department
Foreign Language Department
Art Department
Music Department
Additional Electives

GENERAL INFORMATION

Educational Philosophy & Mission

Learning flourishes in an environment of disciplines inquiry that develops and integrates knowledge and skills. The best learning occurs in an environment that is rich in resources, provides opportunity for active, participatory learning, and stresses responsibility and initiative. Learning is achieved through a clear integration and alignment of curriculum, instruction, and assessment. All students can learn and are expected to achieve high standards.

Informed Parents/Guardian:

The Moravia Community Schools encourage you to stay involved in your student's daily activities and grades. Information related to daily announcements, student grades, and activities can be accessed through our website at www.moraviaschools.com.

Registration Guidelines

A FOUR YEAR PLAN OF STUDY is available for use in the Program of Studies. As a 1st step, students must give serious consideration to completing the FOUR YEAR PLAN of STUDY. This will help to ensure that students have a well-planned high school education that will lend itself to post high school plans. This FOUR YEAR PLAN of STUDY may be updated on a yearly basis as appropriate in consultation with a school counselor. As a 2nd step, students must carefully read the Program of Studies paying particular attention to graduation requirements, college entrance requirements (2 and 4 year program), course descriptions, and prerequisites. As a 3rd step, students should work closely with their school counselors to clarify questions and seek advice to complete the FOUR YEAR PLAN of STUDY. Counselors are also available to assist with questions regarding college entrance requirements and with job shadowing experiences.

Specific Requirements

1. Maximum of 15 credits of a combination of journalism, speech, and

communication studies can be applied to fulfill the 60 credits of required English courses.

2. The social studies requirement includes one year of American Studies, one year of World History, one semester of Government and one semester of economics.
3. The physical education requirement requires the student to be registered in PE for one semester of each year of attendance. Seniors who participate in an athletic sport during the school year may request a waiver form participating in a physical education class. In addition, any student who takes seven classes all semesters may request a PE waiver. The requirement may also be waived for those students with a doctor's medical excuse filed in the Health Office. This waiver must be filed annually.
4. Students must be registered in health for one semester unless a parent wavier request is approved.

College Entrance Requirements

Students are strongly urged to work closely with their school counselor regarding college entrance requirements and completing their FOUR YEAR PLAN. A copy of the Iowa's Regents Universities' admission recommendations is included as a guideline and should be used early on for general planning purposes. In order to be best prepared for the future, students need to get specific information from a variety of schools and/or post high school programs. Not all courses listed in the Program of Studies meet college and/or NCAA admission requirements.

Academic Eligibility

In order to participate in any high school performance and or be eligible to participate in a sport or competitive activity, a student must have passed all courses the trimester prior to participation, and must be enrolled in four subjects (Excluding Driver's Education). A special education student who is making adequate progress in meeting goals and objectives in the individualized education plan,

as assessed by the teacher, will be academically eligible.

Moravia Alternative High School

Students at risk of withdrawing from high school or those far behind in credits may be considered for a referral to Moravia Alternative High School. The alternative high school's classes may not be used to accelerate the date of graduation.

Early Graduation

Early Graduation is not encouraged because it generally provides only a minimum program; however, there are circumstances under which it is possible. Arrangements for early graduation should be made through the school counseling office during the previous term of the proposed year of graduation. Written application must be made to the student's counselor, stating reasons for the request. No credit other than from regular high school courses may be used for early graduation.

Recovery Program

If students are behind on credits, they may elect to take courses through the Moravia CSD summer school or school-year credit recovery program (Edmentum). The equivalent of 15 course credits from recovery credit programs may be applied toward an Moravia CSD diploma. Student must request a written approval form from their counselor prior to enrolling in each course. *Note: These courses may not be substituted for specific Moravia CSD High School courses required for graduation without approval from an administrator.

FAFSA Information

The FAFSA (Free Application for Federal Student Aid) is a free federally-required form for students seeking financial aid for college. This form should be filed after October 1st and prior to June 30th each year. The FAFSA can be filed online at www.fafsa.gov; there is no charge to complete and submit the FAFSA. Students and families may receive assistance with the FAFSA and Financial Aid process from their counselors.

Goals for Student Achievement

When Students graduate from the Moravia Community School System, our goal is to assure that.... ALL STUDENTS

- 1....are responsible for their own decisions (including actions, choices, higher order thinking skills, work ethic and personal finances),
- 2...develop self esteem, respect and appreciation for the world around them,
- 3...become lifelong learners,
- 4...are academically well-rounded and strive to reach their highest potential,
- 5...are able to function effectively in society and in the global economy, and
- 6...communicate effectively.

GRADUATION REQUIREMENTS

COURSES	MINIMUM REQUIREMENTS	CREDITS
English	4 Years	8 Credits
Social Studies	3 Years	6 Credits
Mathematics	3 Years	6 Credits
Science	3 Years	6 Credits
Physical Education	4 Years	4 Credits
Health	1 Semester	1 Credit
Personal Finance	1 Semester	1 Credit
Homeroom	4 Years	1 Credit (.25 per semester)
Electives	4 Years	18 Credits

(50 CREDITS)

ENGLISH/LANGUAGE ARTS (8 CREDITS)

English I (2)

English II (2)

American Literature (2) Required for class of 2022

English Electives (4)

SOCIAL STUDIES (6 CREDITS)

American History (2)

World History (2) Required for classes of 2022, 2023, 2024

Government (1)

Social Studies Electives (3 Starting with Class of 2025)

SCIENCE (6 CREDITS)

Physical Science (2)

Biology (2)

Science Electives (2)

HOMEROOM (1 CREDIT)

MATH (6 CREDITS)

6 semesters credit hours of Math (Iowa Regent Universities require 6 math credits of Algebra and above)

FINANCIAL LITERACY (ANY ONE OF THE FOLLOWING OPTIONS WILL MEET THIS REQUIREMENT)

1 semester credit of Economics

1 semester credit of Personal Finance

2 semester credit hours of Consumer Business Math

PHYSICAL EDUCATION (4 CREDITS)

Students must take P.E. 1 semester each year of High School

CPR Certification

ELECTIVE COURSES (18 CREDITS)

A credit is earned when a student has a passing grade of 60% or higher at the end of a semester. These requirements reflect the state Core Curriculum of 4-3-3-3. The requirements for graduation set by the Moravia Board of Education will be the 31 required credits plus an additional 19 elective credits.

ADMISSION TO IOWA'S REGENT UNIVERSITIES

Iowa resident students who achieve at least a 245 RAI score and who meet the minimum high school course requirements are automatically offered admission to any of the three Regent Universities. Students who achieve less than a 245 RAI score and who meet the minimum high school course requirements will continue to receive individual review from the Regent University to which they applied.

So what's your RAI score? Class of 2020 and beyond: ACT Composite score x 3, Cumulative GPA x 30, Number of years HS core courses x 5

SUBJECT AREA	IOWA STATE UNIVERSITY	UNIVERSITY OF IOWA	UNIVERSITY OF NORTHERN IOWA
English/Language Arts	4 Years emphasizing writing, speaking, and reading, as well as an understanding and appreciation of literature.	4 years, with an emphasis on the analysis and interpretation of literature, composition and speech.	4 Years, including one year of composition; may also include one year of speech, communication, or journalism.
Math	3 years, including one year each of algebra, geometry and advanced algebra.	3 years, including two years of algebra, and one year of geometry, for the admission to the College of Liberal Arts and Sciences. 4 Years, including two years of algebra, one year of geometry and higher math (trigonometry, analysis or calculus), for admission to the college of engineering.	3 years, including the equivalent of algebra, geometry and algebra II.
Natural Science	3 years, including at least two years of courses which emphasize elements of biology, chemistry or physics.	3 years, including courses in physical science, biology, chemistry, environmental science, and physics for admission to the College of Liberal Arts and Sciences. 3 years, with at least one year each in chemistry and physics, for admission to the College of Engineering. Nursing – 3 years including one year each of biology, chemistry and physics.	3 years, including courses in general science, biology, chemistry, earth science of physics. Laboratory experience highly recommended.
Social Studies	2 years for admission to the Colleges of Agriculture and Life Sciences, Business, Design, Human Sciences and Engineering. 3 years for admission to the College of Liberal Arts and Sciences.	3 years with U.S. History and World History recommended for admission to the College of Liberal Arts and Sciences. 2 years with U.S. History and World History recommended, for admission to the College of Engineering.	3 years, including courses in anthropology, economics, geography, government, history, psychology or sociology.
World Languages	2 years of a single world language for admission to the College of Liberal Arts and Sciences and the College of Engineering.	2 years of a single world language are required for admission. For many degrees, the fourth year of proficiency is required for graduation. Nursing – Minimum second-level proficiency in one world language.	World language courses are not required for admission. However two years of a world language in high school with a C- or above in the last term will meet the University graduation requirement.
Other Courses	Specific elective courses are not required for admission.	Specific elective courses are not required for admission.	2 years of additional courses from the required subject areas, world language or fine arts.

STUDENT PROMOTION – RETENTION – ACCELERATION

A junior high student will take five (5) core subjects. If a student fails two or more core subject areas, he/she may be required to attend summer school or they may be retained upon the recommendation of the principal and teachers. When it becomes evident that a student may be retained at the grade level for an additional year, the parents will be informed.

JUNIOR HIGH REQUIREMENTS

English, Social Studies, Mathematics, Science, Physical Education, Health

EARLY GRADUATION

Students who meet the graduation requirements set by the board prior to the end of their senior year may apply for early graduation. In order to graduate early, student must have the approval of the superintendent and principal and come before the board at least one month prior to completion of academic requirements. Students who graduate early become alumni of the school district and are not allowed to participate in school activities, including but not limited to senior activities such as prom and senior trip, except for graduation ceremonies as determined by administration.

SCHEDULES AND SCHEDULE CHANGES

Registration is completed during 4th quarter for the following school year. It is a fact that not every student will be enrolled in every class they select. Student requested course changes will be considered only after the first 3 class days of each semester. Teacher initiated and/or administrative schedule changes may take place at any time.

HONOR ROLL

The honor roll will be computed at the end of each Semester for both middle school and high school students. There are two honor rolls. Those students on the “A” honor roll have a GPA no lower than 3.5 for that report period. Those students on the “B” honor roll have a GPA no lower than 3.0 for that report period.

POST SECONDARY /CONCURRENT ENROLLMENT COURSES

- Students wishing to take post-secondary classes need to notify the guidance counselor by mid-term of the semester prior to the term that they wish to enroll.
- Students who withdraw from classes two (2) consecutive semesters and /or fail one (1) class may be unable to register for further post-secondary classes.
- Students taking college classes will have three (3) class sessions in which to drop a class. Students must also follow the “drop” procedures established by the college: failure to do so may affect future enrollment opportunities.
- No high school credit will be given for any post-secondary curriculum offerings at the Moravia school facilities provided that meet individual course prerequisites.
- Students participating in off-campus programs (RACA, for example) are excused from attendance at Moravia schools during the hours of their off-campus classes and are not be on the school campus unless arranged by administration.
- Students enrolled in the Rathbun Area Career Academy (RACA) programs must take at least two (2) “in house” Moravia HS classes plus physical education.
- Students taking all on-site (Moravia) classes must have six (6) classes plus physical education.
- Moravia School District will not provide transportation to post-secondary classes.
- All Post-Secondary/Concurrent classes are eligible for weighted courses

CAREER ACADEMIES

Moravia students who meet all requirement for post-secondary opportunities have the option of enrolling in a Career Academy. This opportunity will allow student to gain hands on experience in career areas of interest to them. These courses also allow students to gain college credit towards their degree in that area. The Career Academies focus on specific vocational/technical programs. Depending on which academy the student chooses, their classes will meet in either Albia or Centerville. The offerings and their locations are listed below.

ALBIA AREA CAREER ACADEMY – ALBIA HIGH SCHOOL

- Automotive Tech
- Machine Technology

RATHBUN AREA CAREER ACADEMY (RACA) IHCC CENTERVILLE

- Agriculture
- Construction Technology
- Welding
- Industrial Maintenance Academy
- Health Careers Academy

OTTUMWA CAREER CAMPUS (ZOOM)

- Computer Science
- Diesel Mechanics
- Aviation
- Criminal Justice
- Computer Accounting Academy

LVL (Live Virtual Learning)

- Education
- Computer Software Development
- Business Transfer

ENGLISH DEPARTMENT

Students are required to complete (8) English Language Arts credits to graduate from Moravia Community Schools. Students are required to complete, and pass English I, English II, plus (4) elective English credit.

Freshman Year	Sophomore Year	Junior Year	Senior Year
English/Language Arts I	English/Language Arts II	English/Language Arts III Communication Skills (S) Public Speaking (S) Journalism (S) Mythology (S)	English/Language Arts IV Communication Skills (S) Public Speaking (S) Journalism (S) Mythology (S)

ENGLISH/LANGUAGE ARTS I (1 YEAR – 2 CREDITS) GRADE 9 (SCED #01001)

English/Language Arts I (9th grade) courses build upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language use: reading, writing, speaking, and listening. Typically, these courses introduce and define various genres of literature, with writing exercises often linked to reading selections.

ENGLISH/LANGUAGE ARTS II (1 YEAR – 2 CREDITS) GRADE 10 (SCED #01002)

PREREQUISITE: ENGLISH I

English/Language Arts II (10th grade) courses usually offer a balanced focus on composition and literature. Typically, students learn about the alternate aims and audiences of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message.

ENGLISH/LANGUAGE ARTS III (1 YEAR - 2 CREDITS) GRADE 11 (SCED #01003)

PREREQUISITE: ENGLISH II

English/Language Arts III (11th grade) courses continue to develop students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature, which often form the backbone of the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses.

ENGLISH/LANGUAGE ARTS IV (1 YEAR - 2 CREDITS) GRADE 12 (SCED #01004)

PREREQUISITE: ENGLISH III

English/Language Arts IV (12th grade) courses blend composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature, continuing to develop their language arts skills. Typically, students primarily write multi-paragraph essays, but they may also write one or more major research papers.

COMMUNICATIONS (1 SEMESTER - 1 CREDIT) GRADES 11 - 12 (SCED #01155)**PREREQUISITE: ENGLISH I & ENGLISH II**

Communications courses focus on the application of written and oral communication skills through a variety of formal and informal experiences. The courses are performance-based and emphasize effective interpersonal and team-building skills. Communications courses may also involve the study of how interpersonal communications are affected by stereotypes, nonverbal cues, vocabulary, and stylistic choices.

PUBLIC SPEAKING (1 SEMESTER - 1 CREDIT) GRADES 11 - 12 (SCED #01151)**PREREQUISITE: ENGLISH I & ENGLISH II**

Public Speaking courses enable students, through practice, to develop communication skills that can be used in a variety of speaking situations (such as small and large group discussions, delivery of lectures or speeches in front of audiences, and so on). Course topics may include (but are not limited to) research and organization, writing for verbal delivery, stylistic choices, visual and presentation skills, analysis and critique, and development of self-confidence.

JOURNALISM (1 SEMESTER -1 CREDIT) GRADES 11-12 (SCED #01101)**PREREQUISITE: ENGLISH I & ENGLISH II**

Journalism courses (typically associated with the production of a school newspaper, yearbook, or literary magazine) emphasize writing style and technique as well as production values and organization. Journalism courses introduce students to the concepts of newsworthiness and press responsibility; develop students' skills in writing and editing stories, headlines, and captions; and teach students the principles of production design, layout, and printing. Photography, photojournalism, and digital technology skills may be included.

MYTHOLOGY (1 SEMESTER – 1 CREDIT) GRADES 11-12 (SCED #01069)**PREREQUISITE: ENGLISH I & ENGLISH II**

Mythology courses introduce students to the origins and meaning of myths, including how cultures use myths to explain natural or social phenomenon. Students will explore the major themes, stories, characters, and archetypes present in the mythologies of several different cultures.

SOCIAL STUDIES DEPARTMENT

Students are required to complete (6) Social Studies credits to graduate from Moravia Community Schools. Students are required to pass and complete American History, Government, and 3 additional Social Studies credits, one of which must be a behavioral science course and 1 being a world studies course.

Freshman Year	Sophomore Year	Junior Year	Senior Year
World History	World History Law Studies (S) Legal System (S) Contemporary World Issues	U.S. History Sociology (S) Psychology (S) Law Studies (S) Legal System (S) Contemporary World Issues (S)	Government (S) Economics(S) Sociology (S) Psychology (S) Law Studies (S) Legal System (S) Contemporary World Issues (S)

WORLD HISTORY I (1 YEAR - 2 CREDITS) GRADES 9 (SCED #04051)

World History—Overview courses provide 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. World History—Overview courses may include geographical studies, but often these components are not as explicitly taught as geography.

AMERICAN HISTORY (1 YEAR - 2 CREDITS) REQUIRED - GRADE 10 (SCED #04101)

PREREQUISITE - WORLD HISTORY

U.S. History—Comprehensive courses provide students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. These courses typically include a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement.

US GOVERNMENT (1 YEAR - 2 CREDIT) - GRADE 12 (SCED #04151)

U.S. Government—Comprehensive courses provide an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. These courses may examine the structure and function of state and local governments and may cover certain economic and legal topics.

ECONOMICS (1 SEMESTER - 1 CREDIT) - GRADE 12 (SCED #04201)

Economics courses provide students with an overview of economics with primary emphasis on the principles of microeconomics and the U.S. economic system. These courses may also cover topics such as principles of macroeconomics, international economics, and comparative economics. Economic principles may be presented in formal theoretical contexts, applied contexts, or both.

SOCIOLOGY (1 SEMESTER – 1 CREDITS) GRADES 11-12 (SCED #04258)

Sociology courses introduce students to the study of human behavior in society. These courses provide an overview of sociology, generally including (but not limited to) topics such as social institutions and norms, socialization and social change, and the relationships among individuals and groups in society.

PSYCHOLOGY (1 SEMESTER – 1 CREDIT) GRADES 11–12 (SCED #04254)

Psychology courses introduce students to the study of individual human behavior. Course content typically includes (but is not limited to) an overview of the field of psychology, topics in human growth and development, personality and behavior, and abnormal psychology.

CONTEMPORARY WORLD ISSUES (1 SEMESTER – 1 CREDITS) GRADES 10-12 (SCED #04064)

Contemporary World Issues courses enable students to study political, economic, and social issues facing the world. These courses may focus on current issues, examine selected issues throughout the 20th century, and look at historical causes or possible solutions.

LAW STUDIES (1 SEMESTER - 1 CREDITS) GRADES 10-12 (SCED #04162)

Law Studies courses examine the history and philosophy of law as part of U.S. society and include the study of the major substantive areas of both criminal and civil law, such as constitutional rights, torts, contracts, property, criminal law, family law, and equity. Although these courses emphasize the study of law, they may also cover the workings of the legal system.

CIVICS (1 SEMESTER – 1 CREDITS) GRADES 10 – 12 (SCED #04161)

Civics courses examine the general structure and functions of U.S. systems of government, the roles and responsibilities of citizens to participate in the political process, and the relationship of the individual to the law and legal system. These courses do not typically delve to the same degree of detail into constitutional principles or the role of political parties and interest groups as do comprehensive courses in U.S. Government.

MATH DEPARTMENT

Students are required to complete (6) Math credits to graduate from Moravia Community Schools. Students may be placed in certain math classes based on teacher recommendations. Iowa's Regent Universities admissions requires (6) math credits in Algebra I and higher.

Freshman Year	Sophomore Year	Junior Year	Senior Year
Pre-Algebra Algebra I	Pre-Algebra Algebra I Geometry	Pre-Algebra Algebra I Geometry Algebra II Consumer Math	Pre-Algebra Algebra I Geometry Algebra II Consumer Math Pre-Calculus (S) Statistics (S)

PRE-ALGEBRA (1 YEAR - 2 CREDITS) GRADES 9 (SCED #02051)

Pre-Algebra courses increase students' foundational mathematics skills and prepare them for Algebra I by covering a variety of topics, such as properties of rational numbers (i.e., number theory), ratio, proportion, estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first-degree equations and inequalities.

ALGEBRA I (1 YEAR - 2 CREDITS) GRADES 9, 10 (SCED #02052)

Algebra I courses include the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first-degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; solving quadratic equations; and modeling linear data. Specific content depends upon state standards.

GEOMETRY (1 YEAR - 2 CREDITS) GRADES 10, 11 (SCED #02072)

PREREQUISITE: ALGEBRA I

Geometry courses, emphasizing an abstract, formal approach to the study of geometry, typically include topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles, quadrilaterals, vertical angles, lines intersected by a transversal, etc.

ALGEBRA II (1 YEAR - 2 CREDITS) GRADES 11,12 (SCED #02056)**PREREQUISITE: ALGEBRA I, GEOMETRY**

Algebra II course topics typically include developing an understanding of the relationships between the symbolic, graphic, tabular and verbal representations of functions; utilizing the various representations to interpret function behavior and solve equations; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher-degree equations; exponential functions; inverse functions; statistical modeling; modeling linear and quadratic data; and operations with rational and irrational exponents.

CONSUMER MATH (1 YEAR - 2 CREDITS) GRADES 11-12 (SCED #02157)**PREREQUISITE: ALGEBRA I**

Consumer Mathematics courses reinforce general mathematics topics (such as arithmetic using rational numbers, measurement, ratio and proportion, and basic statistics) and apply these skills to consumer problems and situations. While these courses prepare students for a variety of practical applications, they are not intended to serve as remedial mathematics courses. 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.

PRE-CALCULUS (1 SEMESTER - 1 CREDITS) GRADE 11 - 12 (SCED #02110)**PREREQUISITE: ALGEBRA II**

Pre-Calculus courses combine the study of Trigonometry, Elementary Functions, Analytic Geometry, and Mathematic Analysis topics as preparation for calculus. Topics typically include the study of complex numbers; polynomial, logarithmic, exponential, rational, trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; modeling linear, quadratic, exponential, and trigonometric data; and limits and continuity.

STATISTICS (1 SEMESTER – 1 CREDITS) GRADE 11 - 12 (SCED #02205)

Statistics courses involve the major concepts and methods used to collect, analyze, and draw conclusions from data. Topics typically include populations and samples, measures of central tendency and variability, hypothesis testing, presentation, and making statistical inferences.

SCIENCE DEPARTMENT

Students are required to complete (6) Science credits to graduate from Moravia Community Schools. Students are required to complete and pass Physical Science, Biology and 2 elective Science credits.

Freshman Year	Sophomore Year	Junior Year	Senior Year
Physical Science	Biology	Environmental Science Anatomy Advanced Biology (S) Zoology (S) Physics Chemistry	Environmental Science Anatomy Advanced Biology (S) Zoology (S) Physics Chemistry

PHYSICAL SCIENCE (1 YEAR - 2 CREDITS) - GRADE 9 (SCED #03159)

Physical Science courses involve study of the structures and states of matter. Typically (but not always) offered as introductory survey courses, they may include such topics as forms of energy, wave phenomenon, electromagnetism, and physical and chemical interactions.

BIOLOGY (1 YEAR - 2 CREDITS)- GRADE 10 (SCED #03051)

Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy.

ENVIRONMENTAL SCIENCE (1 YEAR – 2 (CREDITS) GRADES 11 – 12 (SCED #03003)

PREREQUISITE: PHYSICAL SCIENCE, BIOLOGY

Environmental Science courses examine the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, these courses usually cover the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources.

CHEMISTRY (1 YEAR - 2 CREDITS) GRADE 11 - 12 (SCED # 03101)

PREREQUISITE: BIOLOGY, ALGEBRA I

Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied.

ANATOMY & PHYSIOLOGY (1 YEAR - 2 CREDITS) GRADE 11 - 12 (SCED #03053)**PREREQUISITE: BIOLOGY**

Usually taken after a comprehensive initial study of biology, Anatomy and Physiology courses present the human body and biological systems in more detail. In order to understand the structure of the human body and its functions, students learn anatomical terminology, study cells and tissues, explore functional systems (skeletal, muscular, circulatory, respiratory, digestive, reproductive, nervous, and so on), and may dissect mammals.

PHYSICS (1 YEAR - 2 CREDITS) (ODD YEAR) GRADES 11 - 12 (SCEC #03151)

Physics courses involve the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena.

ZOOLOGY (1 SEMESTER - 1 CREDITS) (EVEN YEAR) GRADES 11-12 (SCED #03214)

Zoology courses provide students with an understanding of animals, the niche they occupy in their environment or habitat, their life cycles, and their evolutionary relationships to other organisms. These courses should also help students develop an awareness and understanding of biotic communities.

BIOLOGY – ADVANCED STUDIES (1 SEMESTER - 1 CREDITS) GRADES 11-12 (SCED #03052)

Usually taken after a comprehensive initial study of biology, Biology—Advanced Studies courses cover biological systems in more detail. Topics that may be explored include cell organization, function, and reproduction; energy transformation; human anatomy and physiology; and the evolution and adaptation of organisms.

PHYSICAL EDUCATION/HEALTH DEPARTMENT

Students are required to complete 1 credit of Physical Education each year of high school unless an athletic, or academic exemption is granted by administration.

PHYSICAL EDUCATION (1 SEMESTER - 1 CREDIT) REQUIRED GRADES 9 - 12 (SCED #08001)

Physical Education courses provide students with knowledge, experience, and an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities.

RECREATION SPORTS (1 SEMESTER - 1 CREDIT) REQUIRED GRADES 9 - 12 (SCED #08004)

Recreation Sports courses provide students with knowledge, experience, and an opportunity to develop skills in more than one recreational sport or outdoor pursuit (such as adventure activities, croquet, Frisbee, wall climbing, bocce ball, fishing, hiking, cycling, and so on).

TEAM SPORTS (1 SEMESTER - 1 CREDIT) REQUIRED GRADES 9 - 12 (SCED #08001)

Team Sports courses provide to students the knowledge, experience, and opportunity to develop skills in more than one team sport (such as volleyball, basketball, soccer, and so on).

WEIGHT TRAINING (1 SEMESTER - 1 CREDIT) GRADES 9-12 (SCED #08009)

This course is designed for both athletes and non-athletes. It includes instruction in the basic principles of strength training and conditioning for personal fitness and development. Students will learn basic skills and knowledge associated with resistance training, aerobic conditioning and anaerobic conditioning. Additionally, students will have opportunities to gain knowledge of health related fitness concepts, practice personal and social skills, and gain understanding of how a healthy lifestyle impacts health, fitness, and physical performance. This class is highly encouraged for ALL of Moravia's student athletes to help reduce the risk of injuries and improve sport performance.

FITNESS / CONDITIONING ACTIVITIES (1 SEMESTER - 1 CREDIT) GRADES 9-12 (SCED #08005)

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

INDIVIDUAL SPORTS (1 SEMESTER - 1 CREDIT) GRADES 9-12 (SCED #08003)

Individual/Dual Sports courses provide students with knowledge, experience, and an opportunity to develop skills in more than one individual or dual sport (such as tennis, golf, badminton, jogging/running, racquetball, and so on).

HEALTH EDUCATION (1 SEMESTER – 1 CREDITS) GRADES 9 - 12 (SCED #08051)

Topics covered within Health Education courses may vary widely, but typically include personal health (nutrition, mental health and stress management, drug/alcohol abuse prevention, disease prevention, and first aid) and consumer health issues. The courses may also include brief studies of environmental health, personal development, and/or community resources.

VOCATIONAL AGRICULTURE DEPARTMENT

The Moravia Vocational Program of study enables a student to explore vocational areas during high school. This area of study is designed to help students explore different career fields and areas of interest while taking those courses that help them meet Moravia High School graduation requirements. The courses offered in this program will provide a foundation upon which to build the skills necessary for job performance and/or further study/training following the completion of high school. In many cases, taking the course in any one of the occupational clusters will prepare the student for employment in that area in his/her post-high school days.

FRESHMAN YEAR	SOPHOMORE YEAR	JUNIOR YEAR	SENIOR YEAR
INTRO TO AGRICULTURE AND NATURAL RESOURCES	INTRO TO AGRICULTURE AND NATURAL RESOURCES PLANT SYSTEMS SCIENCE HORICULTURE SCIENCE ANIMAL PRODUCTION SCIENCE AGRIBUSINESS MANAGEMENT AGRICULTURE LEADERSHIP FOOD PRODUCT PROCESSING	INTRO TO AGRICULTURE AND NATURAL RESOURCES PLANT SYSTEMS/SCIENCE HORICULTURE SCIENCE ANIMAL PRODUCTION SCIENCE AGRIBUSINESS MANAGEMENT AGRICULTURE LEADERSHIP FOOD PRODUCT PROCESSING	INTRO TO AGRICULTURE AND NATURAL RESOURCES PLANT SYSTEMS/SCIENCE HORICULTURE SCIENCE ANIMAL PRODUCTION SCIENCE AGRIBUSINESS MANAGEMENT AGRICULTURE LEADERSHIP FOOD PRODUCT PROCESSING

INTRODUCTION TO AGRICULTURE AND NATURAL RESOURCES (1 SEMESTER 1 CREDITS) GRADES 9TH -12TH (SCED #18001)

Introduction to Agriculture and Natural Resources courses survey a wide array of topics within the agricultural industry, exposing students to the many and varied types of agriculture and career opportunities and those in related fields. These courses serve to introduce students to the agricultural field, providing them an opportunity to identify an area for continued study or to determine that their interest lies elsewhere. These courses often focus on developing communication skills, scientific research, types of business ownership, business principles, and leadership skills.

PLANT SYSTEMS/SCIENCE (1 SEMESTER 1 CREDITS) GRADES 10TH-12TH (SCED #18051)

PREREQUISITE: INTRODUCTION TO AGRICULTURE AND NATURAL RESOURCES

Plant Systems/Science courses provide knowledge about the propagation of plants for food and fiber. These courses may cover such topics as soil science, irrigation, pest and weed control, food and fiber processing, and farm operations. These courses may also cover the knowledge and skills needed to produce all types of crops or may emphasize a particular area of the agricultural industry.

**ANIMAL PRODUCTION/SCIENCE (1 SEMESTER- 1 CREDIT,) GRADES 10TH-12TH
(SCED #18101)****PREREQUISITE: INTRODUCTION TO AGRICULTURE AND NATURAL RESOURCES**

Animal Production/Science courses impart information about the care and management of companion and farm animals. These courses may cover animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing, research, qualitative and quantitative analyses as a basis for decision making, and marketing. Students may study a particular species, or they may learn how to care for and maintain livestock as a more inclusive study.

**HORTICULTURE SCIENCE (1 SEMESTER 1 CREDITS) GRADES 10TH-12TH (SCED
#18052)****PREREQUISITE: INTO TO AGRICULTURE AND NATURAL RESOURCES**

Horticultural Science courses expose students to the art and science of growing plants, shrubs, trees, flowers, fruits, and vegetables. In doing so, they cover a wide variety of topics, including principles of plant science, greenhouse and nursery operations, soils and growing media mixtures, fruit and vegetable production, turf/golf course management, interior and exterior plantscaping, irrigation systems, weed and pest control, and floral design.

**ORNAMENTAL HORTICULTURE (1 SEMESTER- 1 CREDIT), GRADES 10TH-12TH (SCED
#18053)****PREREQUISITE: INTRODUCTION TO AGRICULTURE AND NATURAL RESOURCES**

Ornamental Horticulture courses provide information regarding the care and propagation of plants, flowers, trees, and shrubs, but place a special emphasis on those plants that are used for decorative and aesthetic purposes. Because of this particular emphasis, Ornamental Horticulture courses usually concentrate on nurseries and greenhouses and on the floristry industry.

**AGRIBUSINESS MANAGEMENT (1 SEMESTER-1 CREDIT) GRADES 10-12TH (SCED
#18201)****PREREQUISITE: INTRODUCTION TO AGRICULTURE AND NATURAL RESOURCES**

Agribusiness Management courses provide students with the information and skills necessary for success in agribusiness and in operating entrepreneurial ventures in the agricultural industry. These courses may cover topics such as economic principles, budgeting, risk management, finance, business law, marketing and promotion strategies, insurance, and resource management. Other possible topics include developing a business plan, employee/employer relations, problem-solving and decisionmaking, commodities, and building leadership skills. These courses may also incorporate a survey of the careers within the agricultural industry.

FOOD PRODUCT PROCESSING (1 SEMESTER-1 CREDIT) GRADES 10-12TH (18305)**PREREQUISITE: ANIMAL PROCESSING**

Food Product Processing courses impart the knowledge and skills needed to produce and manufacture food products for the consumer market. These courses focus on food products while covering a variety of topics, such as quality selection and preservation, equipment care and sanitation, government regulations, marketing, consumer trends, and product research and development.

AGRICULTURE LEADERSHIP (1 SEMESTER-1 CREDIT) GRADES 10-12TH (18203)**PREREQUISITE: AGRIBUSINESS MANAGEMENT**

Agribusiness Management courses provide students with the information and skills necessary for success in agribusiness and in operating entrepreneurial ventures in the agricultural industry. These courses may cover topics such as economic principles, budgeting, risk management, finance, business law, marketing and promotion strategies, insurance, and resource management. Other possible topics include developing a business plan, employee/employer relations, problem-solving and decision making, commodities, and building leadership skills. These courses may also incorporate a survey of the careers within the agricultural industry.

LARGE ANIMAL CARE (1 SEMESTER-1 CREDIT) GRADES 10-12TH (18103)**PREREQUISITE: INTRODUCTION TO AGRICULTURE AND NATURAL RESOURCES**

Large Animal Care courses focus on the care and management of large animals. Animal nutrition, health, behavior, reproduction and breeding, anatomy and physiology, qualitative and quantitative analyses for decision-making, facilities, handling and training, and grooming are typical areas of study. Course topics may include product processing and marketing.

INDUSTRIAL TECHNOLOGY DEPARTMENT

The Moravia Industrial Technology Program of study enables a student to explore career & technical areas during high school. This area of study is designed to help students explore different career fields and areas of interest while taking those courses that help them meet Moravia High School graduation requirements.

FRESHMAN YEAR	SOPHOMORE YEAR	JUNIOR YEAR	SENIOR YEAR
WOODWORKING	WOODWORKING CONSTRUCTION- COMPREHENSIVE FRAMING CARPENTRY CAD DESIGN & SOFTWARE	WOODWORKING CONSTRUCTION – COMPREHENSIVE CARPENTRY FRAMING CARPENTRY WELDING METALWORKING MACHINING CAD DESIGN & SOFTWARE	WOODWORKING CONSTRUCTION – COMPREHENSIVE CARPENTRY FRAMING CARPENTRY WELDING METALWORKING MACHINING CAD DESIGN & SOFTWARE

WOODWORKING (1 SEMESTER- 1 CREDIT) GRADES 9-12 (SCED #17006)

PREREQUISITE: INTRO TO INDUSTRIAL TECH

Woodworking courses introduce students to the various kinds of woods used in industry and offer experience in using selected woodworking tools. Students design and construct one or more projects and may prepare a bill of materials. Correct and safe use of tools and equipment is emphasized. As students advance, they focus on learning the terminology necessary to use power tools successfully, developing skills to safely use these tools in the workshop and becoming familiar with various kinds of wood-finishing materials. Advanced students typically design a project, prepare bills of materials, construct, and finish proposed projects.

CONSTRUCTION - COMPREHENSIVE (1 SEMESTER- 1 CREDIT) GRADES 10-12

(SCED #17002)

PREREQUISITE: WOODWORKING

This class is designed to give the student advanced carpentry and/or woodworking skills. Drafting Design, Safety, Measurement, Project Planning, Woodworking, Mass Production, and basic home maintenance skills such as framing, plumbing, electrical, and drywall.

CARPENTRY (1 SEMESTER- 1 CREDIT) GRADES 10-12 (SCED #17003)

PREREQUISITE: CONSTRUCTION

Carpentry courses provide information related to the building of wooden structures, enabling students to gain an understanding of wood grades and construction methods and to learn skills such as laying sills and joists; erecting sills and rafters; applying sheathing, siding, and shingles; setting door jambs; and hanging doors. Carpentry courses may teach skills for rough construction, finish work, or both. Students learn to read blueprints, draft, use tools and

machines properly and safely, erect buildings from construction lumber, perform finish work inside of buildings, and do limited cabinet work. Carpentry courses may also include career exploration, good work habits, and employability skills.

FRAMING CARPENTRY (1 SEMESTER- 1 CREDITS) GRADES 9-12 (SCED #17004)

PREREQUISITE: CARPENTRY

Framing Carpentry courses provide students with much of the same knowledge as general carpentry courses (knowledge of various types and grades of woods, proper and safe use of hand and power tools, and site selection and preparation), but place a special emphasis on construction methods applicable to floor, wall, roof, and/or stair framing. Course content may also include insulation installation and painting.

WELDING (1 SEMESTER- 1 CREDIT) GRADES 11- 12 (SCED #13207)

PREREQUISITE: WOODWORKING

Welding courses enable students to gain knowledge of the physical and chemical properties, uses, and applications of various metals. Students gain skills in various processes used to join and cut metals (such as oxyacetylene, shielded metal, metal inert gas, and tungsten arc processes) and experience in identifying, selecting, and rating appropriate techniques. Students read and interpret blueprints in order to identify, select, and rate appropriate techniques. These courses may prepare students to pass relevant industry certifications.

CAD DESIGN & SOFTWARE (1 SEMESTER- 1 CREDIT) (SCED #21107)

Frequently offered as an intermediary step to more advanced drafting courses (or as a concurrent course), CAD Design and Software courses introduce students to the computer-aided drafting systems available in the industry.

METALWORKING (1 SEMESTER- 1 CREDIT) GRADES 10- 12 (SCED #13202)

PREREQUISITE: WOODWORKING

Metalworking courses introduce students to the physical and chemical properties of various metals and the tools and equipment used to manipulate metal and form it into products. Students will develop planning, layout, and measurement skills; gain experience in cutting, bending, forging, casting, and/or welding metal; complete projects according to blueprints or other specifications; and may also learn how to polish and finish metals. Correct use of metalworking tools and equipment is stressed.

MACHINING (1 SEMESTER- 1 CREDIT) GRADES 11- 12 (SCED #13203)

PREREQUISITE: METALWORKING

Machining courses enable students to design and manufacture metal parts using various machine tools and equipment. Course content may include interpreting specifications using blueprints; preparing and using manual and computer numerical controlled (CNC) lathes and milling machines, shapers, and grinders with skill, safety, and precision; maintenance; developing part specifications; and selecting appropriate materials. Advanced course

topics may include quality control; statistical process control; and application of measurements, metalworking theory, and properties of materials. Courses may prepare students for industry certification.

ROBOTICS (1 SEMESTER- 1 CREDIT) GRADES 7-8 (SCED #21009)

Robotics courses help students develop and expand their skills and knowledge of robotics and related scientific and engineering topics. Course topics may include principles of mechanics, electronics, hydraulics, pneumatics, programmable logic controllers. These courses may emphasize the use of engineering principles to design and build robots, construct and connect sensors, and program robots in the programming language.

INTRO TO INDUSTRIAL TECH (1 SEMESTER- 1 CREDIT) GRADES 7-8 (SCED #)

Intro to Industrial Technology is the first building block class for all Industrial Technology classes. Students will learn the skills to read a tape measure, add, subtract, divide common fractions, and basic hand tool safety. Students will also learn about safety and how to operate the Miter saw, Table saw, Band saw and the router. Students will create a basic project, create a parts list, material list, cutting list, and an order of operations.

BUSINESS / COMPUTER SCIENCE DEPARTMENT

The Moravia Business/Computer Science Department Program of study enables a student to explore career & technical areas during high school. This area of study is designed to help students explore different career fields and areas of interest while taking those courses that help them meet Moravia High School graduation requirements. The courses offered in this program will provide a foundation upon which to build the skills necessary for job performance and/or further study/training following the completion of high school. In many cases, taking the course in any one of the occupational clusters will prepare the student for employment in that area in his/her post-high school days.

FRESHMAN YEAR	SOPHOMORE YEAR	JUNIOR YEAR	SENIOR YEAR
Intro to Business (S) Computer Literacy	Intro to Business Accounting Social Media Marketing Banking & Financing Desktop Publishing Computer Literacy Computer Gaming & Design Cybersecurity	Intro to Business Accounting Social Media Marketing Banking & Financing Desktop Publishing Computer Literacy Computer Gaming & Design Cybersecurity	Intro to Business Accounting Social Media Marketing Banking & Financing Desktop Publishing Computer Literacy Computer Gaming & Design Cybersecurity

INTRODUCTORY BUSINESS (1 - SEMESTER – 1 CREDIT) GRADES 9 - 12 (SCED #12051)

Introductory Business courses survey an array of topics and concepts related to the field of business. These courses introduce business concepts such as banking and finance, the role of government in business, consumerism, credit, investment, and management. They usually provide a brief overview of the U.S. economic system, small businesses, and corporate organizations. Introductory Business courses may also expose students to the varied opportunities in administration, accounting, management, and related fields.

ACCOUNTING I (1 YEAR - 2 CREDITS) GRADES 10 – 12 (SCED #12104)

PREREQUISITE: INTRODUCTORY BUSINESS.

Accounting courses introduce students to and expand their knowledge of the fundamental accounting principles and procedures used in businesses through integrating and using accounting-related software and information systems. Course content includes the recording and completion of the accounting cycle, payroll, taxes, debts, depreciation, and periodic adjustments through a computerized accounting program. Students may learn how to apply standard auditing principles and to prepare budgets and final reports. Calculators, electronic spreadsheets, or computer accounting software are usually used. Advanced topics may include principles of partnership and corporate accounting and the managerial uses of control systems and the accounting process.

SOCIAL MEDIA MARKETING (1 SEMESTER – 1 CREDIT) GRADES 10- 12 (SCED #12169)**PREREQUISITES: INTRODUCTORY BUSINESS**

Social Media Marketing courses address social media as a marketing tool and emphasize social media tools, social media messages, and search engine optimization. Topics may include, but are not limited to, marketing information management (including marketing research), market planning, channel management, sales, promotion, product/service management, and pricing.

BANKING & FINANCE (1-SEMESTER – 1 CREDIT) GRADES 10 – 12 (SCED #12101)**PREREQUISITES: INTRODUCTORY BUSINESS**

Banking and Finance courses provide students with an overview of the United States' monetary and banking systems, as well as types of financial institutions and the services and products that they offer. Course content may include government regulations; checking, savings, and money market accounts; loans; investments; and negotiable instruments.

DESKTOP PUBLISHING (1-SEMESTER – 1 CREDIT) GRADES 10 – 12 (SCED #11152)**PREREQUISITES: INTRODUCTORY BUSINESS**

Desktop Publishing courses integrate the knowledge and skills learning in word processing with the concepts, procedures and application of desktop publishing. Students learn to format, create and proofread brochures, programs, newsletters, web pages, presentations and manuscripts.

COMPUTER LITERACY (1 SEMESTER - 1 CREDIT) GRADES 9-12 (SCED #10010)

Computer Literacy courses provide to students the knowledge and ability to use computers and technology efficiently. Typically, course content includes exposure to word-processing, spreadsheet, and presentation applications, but also may include the various uses of computers in modern society. Specific course content aligns with state standards to promote students' technological literacy.

COMPUTER GAMING & DESIGN (1 SEMESTER - 1 CREDIT) GRADES 10-12 (SCD #10205)

Computer Gaming and Design courses prepare students to design computer games by studying design, animation, artistic concepts, digital imaging, coding, scripting, multimedia production, and game play strategies. Advanced course topics include, but are not limited to, level design, environment and 3D modeling, scene and set design, motion capture, and texture mapping.

CYBERSECURITY (1 SEMESTER - 1 CREDIT) GRADES 10-12 (SCD #10020)

Cybersecurity courses introduce students to the concepts of cybersecurity. These courses provide students with the knowledge and skills to assess cyber risks to computers, networks, and software programs. Students will learn how to create solutions to mitigate cybersecurity risks. These courses may also cover the legal environment and ethical computing behavior related to cybersecurity.

COMPUTER PROGRAMMING (1 SEMESTER - 1 CREDIT) GRADES 7-8 (SCD #10156)

Computer Programming—Other Language courses provide students with the opportunity to gain expertise in computer programs using languages other than those specified (such as Pascal, FORTRAN, Python, or emerging languages). As with other computer programming courses, the emphasis is on how to structure and document computer programs, using problem-solving techniques. As students advance, they learn how to best utilize the features and strengths of the language being used.

KEYBOARDING (1 SEMESTER- 1 CREDIT) GRADE 6

Keyboarding courses provide students with an introduction to the keyboard (letters, numbers, and symbols), basic machine operation, and proper keystroke technique. As students' progress, they improve their speed and accuracy and produce increasingly complex documents. Such courses help students develop keyboard proficiency, document production skills, and problem-solving skills.

FAMILY CONSUMER SCIENCE (FCS) DEPT.

The Moravia Family Consumer Science Department Program of study enables a student to explore career & technical areas during high school. This area of study is designed to help students explore different career fields and areas of interest while taking those courses that help them meet Moravia High School graduation requirements.

FRESHMAN YEAR	SOPHOMORE YEAR	JUNIOR YEAR	SENIOR YEAR
FAMILY AND CONSUMER SCIENCE	NUTRITION AND WELLNESS FOOD SCIENCE LIFE SKILLS HUMAN GROWTH AND DEVELOPMENT	CULINARY ART SPECIALTY WORKPLACE PROJECT NUTRITION AND WELLNESS FOOD SCIENCE LIFE SKILLS HUMAN GROWTH AND DEVELOPMENT	CULINARY ART SPECIALTY WORKPLACE PROJECT NUTRITION AND WELLNESS FOOD SCIENCE LIFE SKILLS HUMAN GROWTH AND DEVELOPMENT

CULINARY ART SPECIALTY (1 - SEMESTER – 1 CREDIT) GRADES 11 - 12 (SCED #16056)

Culinary Art Specialty courses provide instruction in a particular type of cooking or culinary style. Examples of such specialty fields include baking, creating and decorating wedding cakes, Middle Eastern cuisine, and so on. These courses emphasize skills specific to the type of culinary art being studied.

NUTRITION AND WELLNESS (1 SEMESTER - 1 CREDITS) GRADES 10 – 12 (SCED #19253)

Nutrition and Wellness courses focus on how physical, mental, social, psychological, and emotional wellness are related to food, food selection, and health. Topics typically include dietary needs across one's lifespan, stress management, special dietary issues, and eating disorders as well as societal and genetic health issues that are addressed through the prevention education component of the class. Other topics covered range from healthy food selection, label reading, and diet analysis to understanding additives, making wise food choices, and dealing with food allergies.

FOOD SCIENCE (1 SEMESTER – 1 CREDIT) GRADES 10- 12 (SCED #19254)

PREREQUISITES: NUTRITION AND WELLNESS

Food Science courses offer opportunities for students to study the composition, structure, and properties of foods and their components as well as the consumption of food and the chemical changes that occur during the processing, storage, preparation, and consumption of food for the consumer. These courses often explore the effects of various materials, microorganisms, and processes on food products through laboratory experiments and can address food innovations to meet the needs of society. Culinary techniques and the safe handling of food in the home environment are commonly included.

**FAMILY AND CONSUMER SCIENCE (1-SEMESTER – 1 CREDIT) GRADES 9 – 12
(SCED #19251)**

Family and Consumer Sciences—Comprehensive courses help students to develop the knowledge and skills that are used to manage one’s family and career efficiently and productively. Course topics typically include foods and nutrition; apparel; child care and development; housing, interior design, and maintenance; consumer decisions; personal financial management; interpersonal relationships; and careers available in family and consumer sciences.

LIFE SKILLS (1-SEMESTER – 1 CREDIT) GRADES 10 – 12 (SCED #19257)

Life Skills courses provide students with information about a wide range of subjects to assist them in becoming wise consumers and productive adults. These courses often emphasize process skills, including goal-setting, decision-making, and other topics such as the setting of priorities, money and time management, interpersonal relationships, and the development of the self. Additionally, specific topics such as wellness, selecting and furnishing houses, meeting transportation needs, nutrition, preparing food, selecting clothing and building a wardrobe, insurance, taxation, and consumer protection may also be covered.

**HUMAN GROWTH AND DEVELOPMENT (1 SEMESTER - 1 CREDIT) GRADES 10-12
(SCED #19261)**

Human Growth and Development courses focus on the application of human development theories and stages of growth to the relationships among individuals at various stages of life, as well as provide an understanding of how people change across their lifespans. Course content may include the application of human development theories in family systems and community settings. Interactions of grandparents and their grandchildren, adult children and their aging parents, as well the similarities between caring for the elderly and caring for young children may also be explored.

**WORKPLACE PROJECT BASED LEARNING (1 YEAR- 2 CREDIT) GRADE 11-12 (SCED
#22901)**

Workplace project-based learning courses are intended to develop attitudes, skills, and strategies applicable for professional situations, with emphasis on personal growth and development, interpersonal skills, intercultural understanding, leadership and the use of ethics. Students learn the concept of project-based learning in the workplace, and develop and implement projects in cooperation with local businesses, community organizations, or non-profit agencies. Projects are developed and supported under the supervision of an instructor.

EXPLORING FAMILY CONSUMER SCIENCE (1 SEMESTER - 1 CREDIT) GRADES 7-8

Exploratory course for middle school students to explore the field of Family Consumer Science.

FOREIGN LANGUAGE DEPARTMENT

FRESHMAN YEAR	SOPHOMORE YEAR	JUNIOR YEAR	SENIOR YEAR
Spanish I	Spanish I Spanish II	Spanish I Spanish II Spanish III	Spanish I Spanish II Spanish III Spanish IV

SPANISH I (1 YEAR - 2 CREDITS) GRADES 9 - 12

This class may be taken at any grade level. Students gain a practical background in basic Spanish grammar and vocabulary through reading, writing, listening and speaking Spanish from the textbook, movies, and Spanish language reading materials. Culture and Geography of Spanish-speaking countries is also covered.

SPANISH II (1 YEAR - 2 CREDITS) GRADES 10 - 12

PREREQUISITE: SPANISH I

This class consists of a review of Spanish level I followed by a more detailed study of Spanish grammar and vocabulary using a textbook, movies, discussion, and Spanish language reading materials.

SPANISH III (1 YEAR - 2 CREDITS) GRADES 11 - 12

PREREQUISITE: SPANISH II

This class consists of a review of grammar and vocabulary from Spanish levels I and II followed by a guided practice and refinement of listening, speaking, reading and writing skills using workbooks, literature, student-written plays and studentwritten essays.

SPANISH IV (1 YEAR - 2 CREDITS) GRADE 12

PREREQUISITE: SPANISH III

This class is usually combined with Spanish III unless the number of students necessitates a separate class section. A higher level of competence is expected and the cultural aspects of Spanishspeaking peoples are emphasized more through selected readings.

ART DEPARTMENT

FRESHMAN YEAR	SOPHOMORE YEAR	JUNIOR YEAR	SENIOR YEAR
DRAWING PAINTING	DRAWING PAINTING CRAFTS CERAMICS PRINTMAKING FUNDAMENTALS OF DESIGN	DRAWING PAINTING CRAFTS CERAMICS PRINTMAKING FUNDAMENTALS OF DESIGN	DRAWING PAINTING CRAFTS CERAMICS PRINTMAKING FUNDAMENTALS OF DESIGN ART PORTFOLIO INDEPENDENT STUDY

VISUAL ARTS – DRAWING - 1 SEMESTER - 1 CREDITS GRADES 9-12 (SCED #05156)

Visual Arts—Drawing courses provide a foundation in drawing using a variety of techniques and media (such as pen-and-ink, pencil, chalk, and so on) in both black and white and color, emphasizing observation and interpretation of the visual environment, life drawing, and imaginative drawing. These courses typically include applying the elements of art and principles of design, along with a study of art and artists from a worldwide perspective, and instruction in the critique process. Advanced courses may encourage students to refine their creative processes and develop their own artistic styles following and breaking from traditional conventions.

VISUAL ARTS – PAINTING - 1 SEMESTER - 1 CREDITS GRADES 9-12 (SCED #05157)

Visual Arts—Painting courses provide a foundation in painting using a variety of techniques and media (such as watercolor, tempera, oils, acrylics), emphasizing observation and interpretation of the visual environment, life drawing, and imaginative painting. These courses typically include applying the elements of art and principles of design, along with a study of art and artists from a worldwide perspective, and instruction in the critique process. Advanced courses may encourage students to refine their creative processes and develop their own artistic styles following and breaking from traditional conventions.

VISUAL ARTS – CRAFTS - 1 SEMESTER - 1 CREDITS GRADES 10-12 (SCED #05165)

PREREQUISITE: DRAWING/PAINTING

Crafts courses help students apply fundamental processes of artistic expression to the materials and accompanying aesthetics of crafts. Students may explore types of folk art and the materials and ways in which objects have been created for practical, religious, spiritual, and cultural needs of people around the world. These courses may survey a wide range of crafts or may focus on only one type of craft; some possibilities include calligraphy, quilting, silk-screening, cake-decorating, tole-painting, mask-making, knitting, crocheting, paper-making, and so on. These courses may also explore aesthetic issues surrounding folk art and artists and engage in critiques of this authentic art form.

CERAMICS/POTTERY - 1 SEMESTER - 1 CREDITS GRADES 10-12 (SCED #05159)**PREREQUISITE: DRAWING/PAINTING**

Ceramics/Pottery courses engage students in learning experiences that include the historical and cultural context of ceramics, aesthetic inquiry, and creative production. These courses provide knowledge of ceramic techniques (e.g., kiln firing and glazing) and processes with an emphasis on creative design and craftsmanship. Courses may include clay modeling, hand building, coil building, casting, and throwing on the potter's wheel.

PRINTMAKING - 1 SEMESTER - 1 CREDITS GRADES 10-12 (SCED #05161)**PREREQUISITE: DRAWING/PAINTING**

Printmaking courses provide students with experience in a variety of traditional, non-traditional and digital printmaking media, techniques, and processes. These courses emphasize fundamental processes of artistic expression through the creation of realistic and abstract prints. Students learn and practice responding to their own art and that of others including master printmakers through analysis, critique, and interpretation for the purpose of reflecting on and refining work.

ART PORTFOLIO (1 SEMESTER - 1 CREDITS) GRADE 12 (SCED #05169)**PREREQUISITE: DRAWING/PAINTING**

Art Portfolio is designed to address a variety of factors and methods including evolving technologies when preparing and refining artwork for portfolio presentation and or when deciding if and how to preserve and protect art. Students will create, select, respond to, and present work that clearly reflects newly obtained technical skills, increasing conceptual thinking and is a reflection of their personal interests. These courses may include individual critiques and peer review.

FUNDAMENTALS OF DESIGN (1 SEMESTER - 1 CREDITS) GRADE 11-12 (SCED #05195)**PREREQUISITE: DRAWING/PAINTING**

Fundamentals of Design courses provide an introduction to and help students respond to the function of fundamental processes of artistic expression in two- and three-dimensional designs. Students apply the concepts and approaches in the symbolic aspects of art and design to two- and three-dimensional problems so that they demonstrate a range of abilities and versatility with technique, problem solving, and ideation. Students study, analyze, and respond to the function of fundamental processes of artistic expression in their work. Students learn to respond to their work and the work of others.

VISUAL ART-INDEPENDENT STUDY (1 SEMESTER - 1 CREDITS) GRADE 9-12 (SCED #05197)**PREREQUISITE: DRAWING/PAINTING**

Visual Arts—Independent Study courses, often conducted with instructors or professional artists as mentors, enable students to independently explore work within a specific art medium, concept, or idea through in-depth examination. Independent Study courses may serve as an opportunity for students to expand their expertise in a specific medium and style, to explore a topic in greater detail, or to develop more advanced skills.

MUSIC / BAND DEPARTMENT

FRESHMAN YEAR	SOPHOMORE YEAR	JUNIOR YEAR	SENIOR YEAR
Vocal Music	Vocal Music	Vocal Music	Vocal Music
Instrumental Music	Instrumental Music	Instrumental Music	Instrumental Music
Drum Line	Drum Line	Drum Line	Drum Line
Jazz Band	Jazz Band	Jazz Band	Jazz Band
Show Choir	Show Choir	Show Choir	Show Choir
Stage & Media Prod	Stage & Media Prod	Stage & Media Prod	Stage & Media Prod
		Music Theory	Music Theory

VOCAL MUSIC (1 CREDIT PER SEMESTER UP TO 8 SEMESTERS) GRADES 7 - 12

Vocal Music, or Chorus is a course that offers individual and group vocal training to students as they participate in a choral ensemble. Opportunities for solos and small groups are also available. The Chorus performs numerous styles of music ranging from classical choral literature to modern arrangements of popular music. Basic musical knowledge, good choral singing techniques, as well as performance skills are learned and rehearsed. The major requirement is attendance and participation at performances. Fall semester performances include: Fall Festival, Conference Vocal Festival, and Winter Concert. Spring semester performances include: State Solo/Small Ensemble Contest, State Large Group Contest, and Spring Concert. Other performances throughout the year may include: State Show/Jazz Choir Contest, Variety Show, Musical, and other festivals, contests, and competitions.

INSTRUMENTAL MUSIC (1 CREDIT PER SEMESTER UP TO 8 SEMESTERS) GRADES 9 - 12

Band meets every day with the focus on different aspects of instrumental music depending on the time of year. All Concert band members are also members of the Marching band and Pep band. Attendance is required at all rehearsals and performances. Optional offerings are available and include: Jazz Band, State Solo and Ensemble Contest as well as various honor bands and festivals around the state. The fall semester is spent working on two types of instrumental music. The beginning of the semester is spent on marching fundamentals and music while the end of semester is devoted to Concert band and the continued development of musical skills. The spring semester involves performance of several different musical styles. The Pep band performs at all home games while students concentrate on preparation for State Large Group and Solo/Ensemble Contests. Individual and group lessons for students in grades 7- 12 will be required. DRUM LINE (FIRST QUARTER) GRADES 7-12 Drum Line meets every Monday, Wednesday and Friday as an early-bird class. Students must be in band as a percussionist to be a member of this ensemble. Drum Line is open to grades 8-12. Seventh graders may participate with an invitation from the instructor. If there are not enough qualified percussionists, to fill all the Drum Line parts, the instructor will invite students to be a member of Drum Line, who can perform the duty required by the part. Drum Line is a competitive ensemble. Students are expected to participate at all competitions. JAZZ BAND (SECOND QUARTER AND SECOND SEMESTER) GRADES 8-12 Jazz Band meets every Tuesday and Thursday during the 2nd and 4th quarter and Monday, Wednesday and Friday during 3rd quarter as an early-bird class. Jazz Band is open to students in grades 8-12 and by invitation, from the instructor, for seventh graders. Students will learn and perform

different styles of jazz. This is a competitive ensemble. Members of Jazz Band are expected to participate in all competitions. **MUSIC THEORY (FIRST SEMESTER, 1 CREDIT) GRADES 11-12** Music Theory is designed for the student who is intending to be a music major in college or the student who would like to see what kind of classes they would take in college as a music major. The class is also designed for students to have a basic understanding of music theory, which is necessary, to succeed in college music classes. One must be a Junior or Senior to enroll in this class and be approved by the instructor. Students must be an active member of either Choir or Band and be approved by the instructor to register for Music Theory.

SHOW CHOIR (1 YEAR – 2 CREDITS) GRADES 7 – 12

Show Choir meets every Tuesday and Thursday during the 1st and 3rd quarter and Monday, Wednesday and Friday during the 2nd and 4th quarter as an early bird class. Show Choir is open to students in grades 9-12 and to seventh and eighth graders with approval of the instructor. This is a competitive ensemble and students are expected to participate in all performances and competitions. Show choir combines vocal music with choreography to create a musical performance that is also visually interesting. Students will gain knowledge and experience in vocal music, dance, and choreography and will gain valuable performance experience.

STAGE AND MEDIA PRODUCTION (1 YEAR - 2 CREDITS) GRADES 9 - 12

This course focuses on the technical aspects of performances and productions, and on digital audio and video editing. Students will learn about sound and lighting systems, audio and video editing software, recording, videography, rigging, set design, and virtually every other aspect of putting on a fine arts production. Emphasis will be on vocal music productions but skills learned will be applicable for other productions as well. This class is very hands-on and will require students to attend all vocal music performances. Other activities may also be required. Many class activities will involve planning, setting up, and operating equipment for performances.

ADDITIONAL ELECTIVES

FRESHMAN YEAR	SOPHOMORE YEAR	JUNIOR YEAR	SENIOR YEAR
	Yearbook Careers	Yearbook Careers Drama	Yearbook Careers Drama

YEARBOOK I (1 YEAR - 2 CREDITS) GRADES 10 - 12

This is an elective in which students will create the Moravia High School Yearbook. Students will learn and experience all of the steps involved in planning and putting together an 80-100 page yearbook. Skills learned or expanded on will include creative writing, interviewing, photography, sales and accounts management, among others. This class requires a large amount of work to be completed outside of regular school hours.

CAREERS (1 YEAR – 2 CREDITS) GRADES 10 – 12

This class is designed to introduce students to the “Real World”. During the first semester of the year, students look at a variety of careers, job training, and colleges using a variety of sources including guest speakers, field trips, interviews, and research work. They also take several interest inventories and explore the results of those studies. Beginning second semester, this class plans and works on the Interview Day, held in March each year. Students write letters, call businesses, and prepare forms for the interviews. We research good examples of resumes, practice interviews and manage the paperwork for the interview day. These students also assist on the actual day, taking interviewers to their stations, make copies as needed, and act as runners. The second semester also uses a role-play, where each student draws a role at random, researches the costs and builds a budget for that role using PowerPoint and a spreadsheet program. Each week, for the remainder of the semester, the student has to update their role with new information given to them by the instructor. The final is a presentation along with an essay. Entrepreneurship, researching and planning to start up their own business is included in the fourth quarter of the class. Each student learns to research a product, advertise, write a business plan, conduct cost analysis, meet with financial institutions to seek funding for their product ideas, research how to produce the item, and research marketing strategies.

DRAMA (1 SEMESTER – 1 CREDIT) ELECTIVE GRADES 11-12

This is a beginning drama class that provides an introduction to many aspects of theatre including acting, basic sound and lighting, set construction, costuming, theatrical makeup, theatre safety and etiquette, history of theatre, and production. Students will read, write, and analyze theatrical performances throughout the course. Some aspects of the course will be hands-on and students will have opportunities to experience the theatre world from the stage and behind the scenes as well.



IHCC (Live Virtual Learning)

ELIGIBILITY REQUIREMENTS

You must follow eligibility requirements outlined in [Iowa Code under Senior Year Plus](#), including:

- You must meet proficiency requirements as evidenced by standardized tests or an alternative measure of proficiency as approved by the local district's Board of Education for Arts & Science courses. Your high school counselor can let you know if you qualify!
- You must meet all pre-requisite requirements, including placement test scores and/or course prerequisites, as outlined in the [IHCC Course Catalog](#). This will include meeting IHCC requirements for any placement scores/GPA or prerequisites for [Arts & Science Programs](#) or [Health Science Programs](#).

Requirements may also include:

- Demonstrate proficiency as determined by the Iowa Assessment for Arts & Science classes. Your high school guidance counselor can let you know if you qualify!
- Meet IHCC 's requirements for any placement scores/GPA or prerequisites for [Health Science programs](#)

POST SECONDARY /CONCURRENT ENROLLMENT COURSES

- Students wishing to take post-secondary classes need to notify the guidance counselor by mid-term of the semester prior to the term that they wish to enroll.
- Students who withdraw from classes two (2) consecutive semesters and /or fail one (1) class may be unable to register for further post-secondary classes.
- Students taking college classes will have three (3) class sessions in which to drop a class. Students must also follow the "drop" procedures established by the college: failure to do so may affect future enrollment opportunities.
- No high school credit will be given for any post-secondary curriculum offerings at the Moravia school facilities provided that meet individual course prerequisites.
- All students in tenth grade will take the Accuplacer test (entrance test for Iowa's Community Colleges)
- Students participating in off-campus programs (RACA, for example) are excused from attendance at Moravia schools during the hours of their off-campus classes and are not to be on the school campus unless arranged by administration.
- Students enrolled in the Rathbun Area Career Academy (RACA) programs must take at least two (2) "in house" Moravia HS classes plus physical education.
- Students taking all on-site (Moravia) classes must have six (6) classes plus physical education.
- Moravia School District will not provide transportation to post-secondary classes.
- All Post-Secondary/Concurrent classes are ineligible for weighted courses.

Visit the 2024-2025 Academy Course Guide and visit your counselor to view the course catalog supported by IHCC.

6TH – 8TH GRADE COURSE DESCRIPTIONS

6TH GRADE COURSES

REQUIRED YEAR LONG CLASSES

MATH

Sixth grade math is a balanced curriculum that focuses on the six strands of skills and concepts:

- Operations and computation
- Numeration
- Patterns, functions, and Algebra
- Data and chance
- Measurement and reference frames
- Geometry

Students link past experiences with new learning to create a solid structure of skills and concepts.

LANGUAGE ARTS

Middle school language arts courses for grades six and seven utilize the standards and benchmarks of the Iowa Core to develop essential reading, writing, communication, and thinking skills. Students will be exposed to various forms of literature and informational text infused within units of study to meet reading and writing standards. Students will be involved in active exploration of language through personal, authentic opportunities to explore vocabulary, conventions, and craft within the Iowa Core standards. All language arts courses are differentiated through instruction that includes, but is not limited to, increased rigor and an appropriate pace.

SCIENCE

Sixth grade science exposes the students to content and concepts from physical science, Earth science, and life science. Major content units include the following:

- Chemistry - the study of matter and its interactions
- Ecology - the study of populations and ecosystems
- Weather - the study of water and the atmosphere
- Environmental science - the study of human impacts on the environment

Concepts covered throughout the various units include: cause and effect, structure and function, patterns, scale/proportion/quantity, systems and systems models, energy and matter, stability and change.

SOCIAL STUDIES

Sixth Grade Social Studies is the beginning of a two-year World History cycle which will focus on areas such as culture, history, innovations, and government. We will study the development and impact of major ancient civilizations like Sumer, Egypt, India, China, Greece, Rome, Arabia, and America.

***Physical Education (Meets every other day)**

At the beginning of each school year, students take a fitness test in the following areas to determine individual baseline scores: cardiovascular endurance, muscular strength, muscular endurance and flexibility. Students will be assessed 2 additional times (one per semester). Each semester, students are assessed on their ability to maintain or improve their individual score, or meet the Mohawk Standard. Daily 12 minute fitness stations and/or weekly ten minute jogs are designed to guide and progress students toward higher fitness levels throughout the year. A variety of team sports and individual sports/games are also offered. Basic skills are taught and lead up games or regular games follow. Activities may include: football, volleyball, tennis, orienteering, dance, table tennis, pickleball, softball, hockey, basketball, ultimate kickball, steal the pins, ultimate Frisbee, and archery

HEALTH (Meets every other day, opposite of PE)

Sixth grade health focuses on many health-related topics such as physical fitness, nutrition, diseases, and misuse of drugs, alcohol and tobacco. Students will learn the benefits of leading a healthy lifestyle on themselves, family and community.

REQUIRED SEMESTER CLASSES

ART

Students will call upon their imagination, envision the end product, and build their problem solving skills to create works of art. Students will establish a firm understanding of how to use art techniques and will explore a variety of materials. Some of those materials include colored pencils, watercolor paint, paper manipulation, and clay.

STUDY SKILLS

Study Skills courses prepare students for success in high school and/or for postsecondary education. Course topics may vary according to the students involved, but typically include reading improvement skills, such as scanning, note-taking, and outlining; library and research skills; listening and note-taking; vocabulary skills; and test-taking skills. The courses may also include exercises designed to generate organized, logical thinking and writing.

KEYBOARDING

Keyboarding courses provide students with an introduction to the keyboard (letters, numbers, and symbols), basic machine operation, and proper keystroke technique. As students progress, they improve their speed and accuracy and produce increasingly complex documents. Such courses help students develop keyboard proficiency, document production skills, and problem-solving skills.

BAND (OPTIONAL)

Band rehearsals are provided for each grade level. Student participation will be based upon interest, appropriate behavior, and willingness to follow the guidelines described in the student band handbook. Students with no prior instrumental music experience need director approval for admittance into the class. Drop/adds typically only occur at semester. Grades will be based on periodic performance assessments. These may include: lesson attendance, method book exercises, scales, concert music check-off, and concert attendance. In addition to the regular band program, students will have the opportunity to participate in 7/8 jazz band, honor band, and solo/ensemble contests.

CHORUS

Students will participate in a choral ensemble, in which they will be learning choral techniques appropriate for the middle level learner. Students will have the opportunity to sing a variety of choral literature during the school year. Students will have two formal performances to celebrate their skills and talents with the community.

6TH – 8TH GRADE COURSE DESCRIPTIONS

7TH GRADE COURSES

REQUIRED YEAR LONG CLASSES

7th Grade Math

This course is an introductory course that will lay the ground work for student advancement into Algebra. The following is a sampling of what this course will cover...

- Rational and irrational numbers
- Exponents
- Proportional relationships
- Expressions and equations
- Beginning geometry and statistics
- Pythagorean Theorem

LANGUAGE ARTS

Middle school language arts courses for grades six and seven utilize the standards and benchmarks of the Iowa Core to develop essential reading, writing, communication, and thinking skills. Students will be exposed to various forms of literature and informational text infused within units of study to meet reading and writing standards. Students will be involved in active exploration of language through personal, authentic opportunities to explore vocabulary, conventions, and craft within the Iowa Core standards. All language arts courses are differentiated through instruction that includes, but is not limited to, increased rigor and appropriate pace.

SCIENCE

7th grade science exposes the students to content and concepts from physical science, Earth science, and life science. Major content units include the following: · Newton's Laws, electric and magnetic forces, gravity · Earth-moon-sun systems, the affect of gravity on galaxies · Characteristics of living organisms, organization and interactions of human body systems · Environmental affects on animal and plant reproduction and growth, photosynthesis and respiration, inheritance of traits, variation of traits. Concepts covered throughout the various units include: cause and effect, structure and function, patterns, scale/proportion/quantity, systems and systems models, energy and matter, stability and change.

SOCIAL STUDIES

7th Grade Social Studies is part two of a two-year World History cycle which will focus on areas such as culture, history, innovations, and government. We will study the development and impact of major civilizations, and we will also focus on major historical themes such as technology and expansion, revolution, wars and conflict, independence, and change.

PHYSICAL EDUCATION (Meets every other day)

At the beginning of each school year, students take a fitness test in the following areas to determine individual baseline scores: cardiovascular endurance, muscular strength, muscular endurance and flexibility. Students will be assessed 2 additional times (one per semester). Each semester, students are assessed on their ability to maintain or improve their individual score, or meet the Waukee Standard. Daily 12 minute fitness stations and/or weekly ten minute jogs are designed to guide and progress students toward higher fitness levels throughout the year. A variety of team sports and individual sports/games are also offered. Basic skills are taught and lead up games or regular games follow. Activities may include: football, volleyball, tennis, orienteering, dance, table tennis, pickleball, softball, hockey, basketball, ultimate kickball, steal the pins, ultimate Frisbee, and archery

HEALTH (Meets every other day, opposite of PE)

Students will evaluate family health habits, advocate for personal, family and community health, and analyze multiple intelligences. Students will also learn about self-esteem, depression, risks with cyberspace, and substance abuse.

REQUIRED QUARTER CLASSES

7TH GRADE ART

Students will be creating works of art by building a foundation of techniques for a variety of art materials. Some of those materials include India ink, quills, colored pencils, markers, graphite sticks, watercolor paint and clay.

COMPUTER AND INFORMATION TECHNOLOGY

Computer and Information Technology courses teach students to operate and use computer and information technology, emphasizing their role as tools to communicate more effectively, conduct research more efficiently, and increase productivity. Course content includes the legal and ethical issues involved with computer technology and use.

FOREIGN LANGUAGE

Students will develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students will also become language learners in the areas of communication, culture, comparison, connection, and communities. This course will also allow students to develop a more complex vocabulary of the target language in order to communicate and explore themes of Personal and Family life, School Life, Emotions, body environment, and many more.

EXPLORATORY AGRICULTURE

Students will develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students will also become language learners in the areas of communication, culture, comparison, connection, and communities. This course will also allow students to develop a more complex vocabulary of the target language in order to communicate and explore themes of Personal and Family life, School Life, Emotions, body environment, and many more.

EXPLORATORY FCS

Students will develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students will also become language learners in the areas of communication, culture, comparison, connection, and communities. This course will also allow students to develop a more complex vocabulary of the target language in order to communicate and explore themes of Personal and Family life, School Life, Emotions, body environment, and many more.

EXPLORATORY INDUSTRIAL TECHNOLOGY

Students will develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students will also become language learners in the areas of communication, culture, comparison, connection, and communities. This course will also allow students to develop a more complex vocabulary of the target language in order to communicate and explore themes of Personal and Family life, School Life, Emotions, body environment, and many more.

6TH – 8TH GRADE COURSE DESCRIPTIONS

8TH GRADE COURSES

REQUIRED YEAR LONG CLASSES

ENGLISH LANGUAGE ARTS

Through book clubs, independent reading projects, and in class reading instruction, students study a variety of literary genres with assignments tailored to develop essential reading, communication, and thinking skills. Multiple formal writing assignments, ranging from creative poems, essays, and formal argumentative writing, are completed throughout the year. Writing workshop allows students to work towards meeting both common and individual goals. Grammar and vocabulary elements are studied separately as well as integrated into students' writing.

SCIENCE

In this 8th grade science class students will:

- Illustrate the constructive and destructive forces that cycle and distribute Earth's rocky material on the surface at varying rates over time.
- Relate the internal structure and processes of Earth to the movements of plates on the surface and illustrates multiple pieces of evidence that supports these changes.
- Illustrates the changes in the particle motion of matter under varying amounts of thermal energy through the evaluation of a student generated investigation.

- Differentiate between kinetic, potential, and electromagnetic forms of energy acting a varying distances.
- Use mathematical representations to describe the properties of waves (electromagnetic, sound, digital and analog) and illustrates the behaviors of reflection, absorption, and transmission through various materials.
- Relate the different genetic variations and mutations that may occur through sexual and asexual reproduction to subsequent protein changes that affect species survival or desirability.
- Evaluate fossil evidence to establish evolutionary relationships of the changes in biodiversity over time.

SOCIAL STUDIES

8th Grade Social Studies focuses on American History from the pre-colonial settlement through the Civil War. An emphasis is placed on historical events during the time period, America's cultural diversity, the basis of a democratic society, and recognizing the need to study the past and relate it to the present.

MATH

8TH GRADE MATH

This course covers material from the first semester of Algebra I, in addition to an emphasis on problem solving, building number sense, and foundational math skills.

- Use order of operations to evaluate phrases and perform the four basic operations with rational numbers
- Solve, graph, write and model with linear equations and inequalities

INTRO TO ALGEBRA

This course is designed as a college preparatory course to continued studies in mathematics and science. Areas of study include solving linear equations and inequalities, quadratic equations, and systems of equations using the real numbers, graphing (both on a number line and in a coordinate plane), factoring, working with functions, as well as problem-solving. The student will:

Use order of operations to evaluate phrases and perform the four basic operations with rational numbers

Solve, graph, write and model with linear equations and inequalities

Solve systems of linear equations

Use proportions and systems of equations to solve word and numeric problems

Explore and Apply Properties of Exponents and Exponential Growth and Decay.

Perform the four basic operations and factor polynomials and solve quadratic equations.

Explore operations of radical expressions and simplification.

Use these properties to solve with Pythagorean theorem.

REQUIRED QUARTERLY CLASSES

Physical Education/Health (Meets every other day)

At the beginning of each school year, students take a fitness test in the following areas to determine individual baseline scores: cardiovascular endurance, muscular strength, muscular endurance and flexibility. Students will be assessed 2 additional times (one per semester). Each semester, students are assessed on their ability to maintain or improve their individual score, or meet the Waukee Standard. Daily 12 minute fitness stations and/or weekly ten minute jogs are designed to guide and progress students toward higher fitness levels throughout the year. A variety of team sports and individual sports/games are also offered. Basic skills are taught and lead up games or regular games follow. Activities may include: football, volleyball, tennis, orienteering, dance, table tennis, pickleball, softball, hockey, basketball, ultimate kickball, steal the pins, ultimate Frisbee, and archery

HEALTH (Meets every other day, opposite of PE)

Students will create a personal wellness plan based on the 7 dimensions of wellness, while utilizing community health resources. Students will study the characteristics of mentally healthy individuals, including topics such as maintaining healthy relationships, managing stress, and resisting negative peer pressure. Additionally, students will summarize physical and emotional changes of puberty, and identify factors that support sexual health.

ELECTIVE CLASSES

BAND

Classes are year-long 8th Grade Band This course is a continuation of skills and techniques learned in 7th Grade Band. The course focuses on proper playing technique on a chosen band instrument, tone production, reading of music notation and symbols, music composition, and proper ensemble performance practice. Grades will be based on periodic performance assessments. These may include: scales, method book exercises, solo & ensemble literature, honor band audition material and concert music check-off. In addition to the regular band program, students will have the opportunity to participate in jazz band, honor band, and solo/ensemble contests.

CHORUS

Enrollment is open to all Prairieview 8th grade students. Students will participate in a choral ensemble in which they will be learning techniques appropriate for the middle level learner. Students will have the opportunity to sing a variety of choral literature during the school year. Students will be involved in two or three formal performances in which they will celebrate their skills and talents with the community. Students will be assessed on the vocal music district standards throughout the course. There will be special events students may choose to participate in and/or honors choir they may choose to audition to be a member of.

FOREIGN LANGUAGE

Students will develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students will also become language learners in the areas of communication, culture, comparison, connection, and communities. This course will also allow students to develop a more complex vocabulary of the target language in order to communicate and explore themes of Personal and Family life, School Life, Emotions, body environment, and many more.

ART

Students will be creating works of art by advancing tool techniques and material manipulation skills. Students will be creating projects by combining multiple materials, using complex thinking and gaining a cultural awareness. Two-dimensional processes explored may include: drawing, painting, and printmaking. Sculptural works of art that will be created may include: wheel throwing, clay hand building, textiles, and jewelry making.

EXPLORATORY FCS

This course provides students with an overview of child development, career readiness, foods and nutrition, and sewing and textiles. Students will explore working in food labs to prepare a wide variety of foods that fit into the national nutritional recommendations. They will use appropriate recipe, meal planning, and safety skills. This course also includes a Basic Sewing Unit where students will be creating textile products with a sewing machine. Students will work to develop activities and literacy skills for working with preschool age children as well as explore a variety of career options.

EXPLORATORY INDUSTRIAL TECHNOLOGY

Students trace and develop an understanding of the history and generations of automation and robotics. Students will acquire knowledge and skills in engineering problem solving by working in teams to solve design problems related to automated systems. They learn about structures, energy transfer, machine automation, and computer control systems in a variety of hands on problem-solving activities. Students apply the engineering design process along with math and science applications to solve a series of design problem activities. They will learn about following design constraints based on client specifications and then fabricate successful prototypes to be tested. Example units would include a “Rube Goldberg Design” and a Paper Roller Coaster System. These units promote communication and collaboration by emphasizing a teaming approach to solving problems.

EXPLORATORY VOCATIONAL AGRICULTURE

Introduction to Vocational Agriculture/FFA.

CAREERS

Introduction to Careers. Creating a 4-year plan utilizing our career information system (YouScience)

All information in the course guide is subject to change due to a variety of internal and external factors that may occur after the printing of this registration guide. Changes in personnel, federal and state requirements, and budgetary constraints are all factors that can force changes.