

Riceville Community School District

Course Descriptions



2020-21

It is the policy of the Riceville Community School District not to discriminate on the basis of race, color, national origin, sex, disability, religion, creed, age (for employment), marital status (for programs), sexual orientation, gender identity and socioeconomic status (for programs) in its educational programs and its 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 the district's Equity Coordinator, Michelle Dohlman, School Counselor, 912 Woodland Avenue, Riceville, IA 50466, (641) 985-2288, michelle.dohlman@riceville.k12.ia.us. For further guidance, visit the Iowa Department of Education website.

Statement of Guiding Principles School Board Policy

CODE NO. 600

We believe that the main purpose of education is to provide a learning situation that will encourage the student to develop their own intellectual abilities, skills, understandings, and talents to the best of their capabilities. Through varied activities, the school assists the student in becoming a resourceful individual and helps them to prepare for a role in our democratic society.

Objectives:

1. To heighten the student's curiosity to discover and to learn.
2. To encourage the student to apply his/her knowledge.
3. To encourage each student to master the basic skills and fundamentals.
4. To provide experiences in meeting and in solving problems.
5. To stimulate creative and logical thinking by students in all desirable lines of endeavor.
6. To offer aesthetic experiences and opportunities in art, music, and drama.
7. To develop worthy use of leisure time.
8. To assist the student to realize his/her responsibilities and obligations to family, community, and society.
9. To offer a program of studies that will be beneficial to all students.
10. To provide an educational environment that promotes the physical, emotional, and mental health of the student.
11. To develop in the student respect for the dignity of the individual as well tolerance of ideas and beliefs.
12. To promote self discipline.
13. To provide the student with guidance that will help bring about attitudes, sound social and moral behavior.

Core Course Offerings

English
Mathematics
Science
Social Sciences
Foreign Language

Career & Technical Education

Agriculture Education
Business and Technology
Computer Science
Health Occupations
Human Services
Industrial Technology

Additional Opportunities

Music
Physical Education & Health
Visual Art
Work-based Learning
Gifted & Talented
Character Development and Leadership
College courses through Northeast Iowa Community College
Iowa Big North

Graduation Requirements

(see specifics per graduation year below)

English 4 years (English 1, English 2, English 3, speech, and English elective)

Math 3 years

Science 3 years (biology, physical science, plus one more year)

Social Studies 3 years (American History, World History, Economics, American Government)

Health I and CPR (once during High School)

Computer Science

Physical Education (recommended students take every other day all year long)

Character development and leadership (1 semester during junior or senior year)

Personal Finance (1 semester during junior or senior year)

Class of 2021

English- 9 credits or four years

Math- 7 credits or three years

Science- 7 credits or three years

Social Studies 6 credits or three years

PE- 4 credits (may vary depending on waiver)

Health- 1 credit

Computers- 1 credit

Character Development and Leadership- 1 credit

Personal Finance- 1 credit

Total- 61 credits

Class of 2022 and beyond

English- 8 credits or four years

Math- 6 credits or three years

Science- 6 credits or three years

Social Studies- 6 credits or three years

PE- 4 credits (may vary depending on waiver)

Health- 1 credit

Computers- 1 credit

Character Development and Leadership- 1 credit

Personal Finance- 1 credit

Total- 54 credits

Class of 2023 and beyond

Same as Class of 22 plus an additional required credit: Work-based learning- 1 credit

Required/Expected Educational Plan of Study

Freshmen:

English 1- 2 credits, year long
Math- 2 credits, year long
Biology- 2 credits, year long
Computer Science- 1 credit, semester long
Health I- 1 credit offered opposite of PE all year long
PE- 1 credit offered opposite of health all year long

Sophomores:

English 2- 2 credits, year long
Math- 2 credits, year long
Physical Science- 2 credits, year long
American History- 2 credits, year long
PE- 1 credit

Juniors:

English 3- 2 credits, year long
Math- 2 credits, year long
Science Elective (chemistry recommended)- 2 credits, year long
World History- 2 credits, year long
PE- 1 credit

Seniors:

1 semester English elective and 1 semester speech
American Government- 1 credit, semester long
Economics- 1 credit, semester long
Character Development and Leadership
Personal Finance- 1 credit, semester long
PE- 1 credit

Course Descriptions

Agriculture Education

The Agriculture Education Program provides an opportunity for all students to develop a basic understanding of Agriculture. The program has three essential components: Classroom & Laboratory Instruction, FFA, and Supervised Agricultural Experience. All students who are enrolled in the Agricultural Sciences curriculum at Riceville Community School will be listed as a member of the FFA, a youth leadership organization, and are expected to complete a Supervised Agricultural Experience in an area of interest related to agricultural sciences, foods, and natural resources.

CASE™ course offerings. The *CURRICULUM FOR AGRICULTURAL SCIENCE EDUCATION (CASE™)* program is a national program developed to prepare students for careers in science, technology and engineering through exciting “hands-on” experiences through activities, projects and problems in agricultural sciences, food and natural resources (AFNR) subject matter. CASE has the goal to increase the rigor and relevance of agriculture subject matter and enhance core academic areas including science, mathematics, and English. Information about this can be found at: <http://case4learning.com/curriculum.html>. The CASE™ curriculum is receiving the endorsement and support of the 2012-13 and 2013-14 Iowa Governor’s STEM scale-up program initiative.

18003 Agriculture and Natural Resources

[Introduction to Agriculture, Food, and Natural Resources (CASE™)] (Year Course)

Agriculture and Natural Resources—Comprehensive courses cover a wide range of topics concerning agriculture and natural resources, including plant and animal science, production, and processing; environmental science and conservation; ecology; agricultural mechanics; agricultural construction; business operations and management; and the careers available in the agricultural/natural resources industry. They may also include topics such as chemical and soil science, forestry, agricultural marketing, and veterinary science.

18051 Plant Production/Science [Agriculture Science-Plants (CASE™)] (Year Course)

The purpose of this Plant Science course is to expose students to the world of agriculture, plant science and career options. The course is structured to enable all students to have a variety of experiences that will provide an overview of the field of agricultural science with a foundation in plant science. Coursework will also require students to acquire knowledge and skills required to utilize plants effectively. Students will research the value of plant production and its impact on the individual, the local, and the global economy. Students will work in teams, exploring hands-on projects and activities, to learn the characteristics of plant science and work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers and plant research specialists face in their respective careers.

18204 Ag Sales and Marketing (Semester Course)

This course will help students understand the basics of selling agriculture products. Students will work individually as well as with a team to develop plans to attract new customers, build customer relations, and continue those customer relations. Learning to advertise and promote their products will be a section of this course as well. As part of the service aspect, students will be expected to organize and run the vending machines for the FFA. Skills learned will include doing inventory, ordering items, stocking the machines, pricing items, fixing machines when there are issues, and making sure all items fall under the Smart Snacks categories.

18201 Agribusiness Management (Semester Course)

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.

Emphasis of this semester course is agricultural business records and management. Subject matter areas include: the farm management process, farm management information, depreciation and valuation, the balance sheet, the income statement, farm economic principles, farm budgeting, farm business structures, risk management, farm tax management, farm investment and credit, farm business analysis, human resource management, and land & machinery management.

18402 Ag Power & Technology (Year Course)

Agriculture Mechanics and Equipment courses provide students with the engineering and power technology principles, skills, and knowledge that are specifically applicable to the agricultural industry. Typical topics include the operation, maintenance, and repair of power, electrical, hydraulic, and mechanical systems. Students participating in the APT course will have experiences in various mechanical engineering concepts with hands-on activities, projects, and problems. Basic skills to operate, repair, engineer, and design agricultural tools and equipment will be covered in this course. Students will apply the engineering principles to the construction of machines and structures. This course is designed for students who are planning careers in Agriculture relating to Ag Power and Machinery operation and management.

18101 Working with Animals (Semester Course)

This course is designed for students who have a high interest in Animal Science. The purpose of this course is to give students practical experience working with animals. The major units of instruction include beef cattle, dairy cattle, swine, sheep, horses, goats, poultry, companion animals, and aquaculture.

18101 Survey of an Animal Industry (Semester Course)

This course is designed for students who have a high interest in Animal Science. Subject matter areas include: importance and history of the livestock industry, animal breeding and reproduction, nutrition and feeding, life cycle production, animal health, marketing of animal products, and issues in the animal industry.

18052 Horticulture (Semester Course)

Horticulture 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 greenhouse and nursery operations, soils and media mixtures, fruit and vegetable production, turf/golf course management, interior and exterior plantscaping, irrigation systems, weed and pest control, and floral design.

18203 Agricultural Leadership (Semester Course)

Helps students develop leadership skills with a focus on opportunities in the food, fiber, and natural resources industries. Topics may include but are not limited to human relationships and effective communication, decision-making and problem-solving, leadership qualities and styles, and ensuring successful completion of group activities.

Business and Technology

12053 Entrepreneurship (Semester Course) Junior/Senior Level

<https://youtu.be/VnD2mdQmWAE>

Entrepreneurship courses acquaint students with the knowledge and skills necessary to own and operate their own business. Topics from several fields typically form the course content: economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting, and communication. Several topics surveyed in business management courses may also be included. College credit through the University of Iowa is offered. Passing an exit exam is required to earn the college credit.

10004 *Introduction to Computer Business Applications (BCA212) (Semester Course)

In Computer Applications course, students acquire knowledge of and experience in the proper and efficient use of previously written software packages. These courses explore a wide range of applications, including (but not limited to) word-processing, spreadsheet, graphics, and database programs, and they may also cover the use of electronic mail and desktop publishing. Dual credit course.

12104 Accounting (Semester Course) Junior/Senior Level

<https://www.youtube.com/watch?v=AL7oxx0RLg8>

Accounting courses introduce and expand upon the fundamental accounting principles and procedures used in businesses. Course content typically includes the full accounting cycle, payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students may learn how to apply standard auditing principles and to prepare budgets and financial reports. Calculators, electronic spreadsheets, or other automated tools are usually used. Advanced topics may include elementary principles of partnership and corporate accounting and the managerial uses of control systems and the accounting process.

12104 *Intro to Accounting (ACC115) (Semester Course) Junior/Senior Level

Basic accounting principles are presented to introduce beginning students to fundamental accounting concepts. The accounting cycle of journalizing transactions, posting, adjusting and closing entries as well as the preparation of financial statements is emphasized for service and merchandising concerns. The use of special journals for a merchandiser. (48/32) Prerequisite: MAT-053 or qualifying placement score. Dual credit course.

12051 Introduction to Business (Semester Course)

Introduction to Business will introduce students to the world of business and help prepare them for more meaningful and beneficial interaction with business. Units will include learning about the economic environment; business ownership; business ethics; consumer decisions, rights, and responsibilities; management; marketing; financial management; business law; and career exploration. Introduction to Business is intended to provide an essential background for further study in business and economic courses in high school or later in post-secondary study. Students will also take an active role in managing and running the Booster Club concession stands.

12103 *Personal Finance (FIN122) (Semester Course- Required) Junior/Senior Level

An overview of personal and family financial planning emphasizing personal financial record keeping, planning spending, tax planning, consumer credit, making buying decisions, purchasing insurance, selecting investments, and retirement and estate planning. Dual credit course.

12009 Business Communications (Semester Course) Junior/Senior Level

Business Communication is a practical course that illustrates the correct way to compose memos, letters, reports, resumes, cover letters, and other documents needed for future success. Lessons include techniques for writing informational, persuasive, sales, employment, and good and bad

news communications, to both internal and external audiences – with practice analyzing those audiences.

Character Development and Leadership

22101 Character Development and Leadership (Semester Course) Required

This is a junior/senior level course that will involve reading, discussion, film clips, and daily writing. Students will learn about various role models that exemplify character traits. Ethical dilemmas will engage students in discussion. Writing is extensive.

Computer Science

10012 Computer Science Discoveries (Semester Course/Year Course) Semester 1 Required

An introductory computer science course that empowers students to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving, and fun.

Semester 1

CSD Unit 1 - Problem Solving

CSD Unit 2 - Web Development

CSD Unit 3 - Animations and Games

Semester 2

CSD Unit 4 - The Design Process

CSD Unit 5 - Data and Society

CSD Unit 6 - Physical Computing

10152 Computer Science Python (Year Course)

- A Notion of computation
- The Python programming language
- Some simple algorithms
- Testing and debugging
- An informal introduction to algorithmic complexity
- Data structures

Industrial Technology

13054 Introduction to the Built Environment (Semester Course)

Wood Processing/Production courses include studying the properties of woods and composites made from woods and using these materials to construct usable products. These courses enable students to experience the process of translating an idea into a finished product, with instruction in planning, designing, selecting materials, and using tools and machines. This course is for studying the application of framing floors, walls, ceilings and roof sections of a building. You will learn how to estimate and purchase materials. You will also learn how to use many of the tools used in the carpentry field. During this time you will construct small sample sections of floors, walls and rafters. The last nine weeks will consist of applying the knowledge gained to design a building; estimate materials needed, and then construct a building for someone in the community.

17002 Construction Core Curriculum (Semester Course)

<https://youtu.be/cXlqzRofKVY>

Comprehensive courses provide students with basic knowledge and skills required for construction of commercial, residential, and institutional structures. These courses provide experiences and information (typically including career opportunities and training requirements) regarding construction-related occupations such as carpentry, cabinetmaking, bricklaying, electrical trades, plumbing, concrete masonry, and so on. Students engage in activities such as reading blueprints, preparing building sites, starting foundations, erecting structures, installing utilities, finishing surfaces, and providing maintenance. This course is designed to give a general background in the construction area. This course will cover topics of basic safety, construction math, hand tools, power tools, blueprints, material handling, employability skills, and communication skills. This class will get give hands-on experience using tools involved in the many construction areas, as well as a general overview of what it takes to be involved in the construction trades.

17007 Cabinetry (Semester Course)

<https://youtu.be/re7SUV4k-Eo>

Cabinetmaking courses provide students with experience in constructing cases, cabinets, counters, and other interior woodwork. Students learn to distinguish between various types of furniture construction and their appropriate applications, and how to use various woodworking machines and power tools for cutting and shaping wood. Cabinetmaking courses cover the different methods of joining pieces of wood, how to use mechanical fasteners, and how to attach hardware. Initial topics may resemble those taught in Woodworking courses; more advanced topics may include how to install plastic laminates on surfaces and how to apply spray finishes. The first six weeks is studying and learning from the textbook. This book covers the different types of wood, their usefulness, durability and economy; also usage of the different tools, learning their parts and how to use them safely. Projects are planned and sketched so a cost estimate can be made before construction begins. After the classroom section of the course is completed, the remaining six weeks of the semester are spent in the shop constructing the projects of your choice. It is recommended that the first project be of a simple design so that you have a chance to become familiar with the power tools and operations. You will be permitted to work at your own pace and complete as many projects as time permits.

***Shop Related Welding (WEL329) & *Welding Fundamentals (WEL330) (Semester Course)**

<https://youtu.be/6GAmzzVgb2g>

This course will cover the safety and proper operation of equipment used in various welding procedures. The use of arc, mig gas, and tig welders will be covered and applied. Horizontal lap, butt, and T welds will be performed with each of these welders. The use of the cutting torch and plasma cutter will also be introduced and applied. Students will be allowed time for a project if they choose. Dual credit course with NICC.

13207 Shop Related Welding (Semester Course)

Welding courses enable students to gain knowledge of the properties, uses, and applications of various metals, 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. Welding courses often include instruction in interpreting blueprints or other types of specifications.

Metal Design & Fabrication (Semester Course)

<https://youtu.be/vywKKnAB41I>

This course will allow students to increase and develop their metalworking skills. Students will design and build a project out of metal with the use of various metalworking tools and machines. They will gain skills in problem solving and fabrication that will aid gainful employment in a trades profession.

17010 Plumbing & Electricity (Semester Course)

https://youtu.be/3grUobm2_b4

Home Maintenance courses provide students with knowledge and skills related to devices and systems found in the home. Course content may include electrical wiring, plumbing, window and door repair and installation, wall and floor repair and finishing, furniture repair and finishing, and small appliance repair. This one semester course takes a look at basic electricity, plumbing, and residential wiring. The course of study includes: the basics of electricity and plumbing, how electricity and plumbing works, alternating current motors, water and drain systems, how we get electricity and water to home, and all areas of wiring and plumbing which your home and other buildings use. The majority of the class is spent on residential or home wiring and plumbing, for example: switches, lights, receptacles, sinks, waterlines, gas lines, and drains. The class is designed to give as much “hands-on” experience as possible.

Home Maintenance & Repair (Semester Course)

<https://youtu.be/AgzjoEWcwoY>

What are the biggest purchases of our lives, our vehicles and our homes? This class will take the basics of ownership and maintenance of both and teach you how to take care of them. This class will look at construction, reading floor plans, plumbing, electrical and maintenance of a house. The class will also look at the maintenance and purchase of small gasoline engines and automobiles. This class is for all students.

21102 Drafting/CAD (Semester Course)

<https://youtu.be/LVwWydPlv2k>

This one semester course will teach the student to visualize and express their own ideas graphically as well as interpret the ideas of others. Mechanical and architectural drafting is open to anyone and is recommended for anyone thinking about going into engineering, architecture, interior design, or trade school, as well as those who just want to be able to express their ideas concretely.

English/Language Arts

01001 English 1 (Year Course) Required

<https://youtu.be/-D4TitLWDJY>

Formerly known as English 9, this course concentrates on a complete review of English grammar, World Literature, study skills and the writing process. The study of literature is aimed at improving the students’ thinking, problem solving, discussion, viewing, and writing skills while increasing their understanding and appreciation of literature. One unit on classical mythology will be completed. Vocabulary, spelling, and journaling also will be completed throughout the year.

01002 English 2 (Year Course) Required

<https://youtu.be/ZAGefUV4V4M>

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.

01003 English 3 (Year Course) Required

<https://youtu.be/JPkBtd-KRu4>

The emphasis of this course is the study of the writing process and the appreciation of British Literature. This course will focus on British Literature from early English until modern English.

Team participation skills will be developed. Authors' lives and the time period from which they wrote will be accented. Literary techniques will be studied. Discussion, interpretation, and problem solving skills will be stressed. At least one full-length classic British novel will be studied. Vocabulary will be studied weekly throughout the year. All final written assignments require the use of a word processor. This course is designed to refine students' communication skills and to help them further prepare to enter the world of work.

01155 Speech (Semester Course) Required

Speech 1 <https://youtu.be/X7NmUM6tFPA>

Speech 2 <https://youtu.be/eFUMbL9Fusg>

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.

01105 Foundations of Writing (Semester Course)

This class offers a review and honing of writing skills in various formats. Essays are written that follow formats such as descriptive, narrative, illustrative and other common forms needed for responding to life's events. Students will read and respond to mentor texts before choosing topics and authoring their own essays that meet the studied types of formats.

01060 Modern Authors and Poets (Semester Course)

Full-length novels and poems are studied that have been written about important events, emotions, and prejudices overcome and succumbed to by the characters involved. The skills that authors use to create vivid and believable characters in both fictional and nonfictional writings are discussed. Students are viewing texts written during the twentieth and twenty-first centuries with in-depth discussion about the relevance of the topic to real life and its power to remain memorable and useful to the times. Students have opportunities to respond to the storyline and critique the writing style.

01062 Classical Literature (Semester Course)

<https://youtu.be/kVBziSOwaqA>

This class will be the study of classical literature. Author studies will be done with authors such as Dickens, Hawthorne, Bronte, Wilder, and others. The writings will be compared to modern literature to seek patterns with subject matter, style, vocabulary and themes. Writing skills will be reinforced through responses to literature, narratives and descriptive papers. Critiques of the literature will be written.

01103 *College Composition 1 (ENG105) (Semester Course)

<https://youtu.be/tT88mPBh2Ws>

This class offers preparation for the types of communication and thought essential to academic and working-world success. The course focuses on writing as a process and is intended to help students identify and refine their own personal writing. Students will prepare for their college experience. Dual credit course.

Prerequisite: Accuplacer test or ACT Score

01103 *College Composition 2 (ENG106) (Semester Course)

<https://youtu.be/tT88mPBh2Ws>

This is a writing course that focuses on writing as a process with emphasis on persuasion, evaluation, analysis, investigation, and research and documentation of sources. Students will prepare for their college experience. Dual credit course.

Prerequisite: College Composition I.

01064 Star Wars & Shakespeare (Semester Course)

<https://youtu.be/qaR16uFDG9Y>

01105 Technical Writing (Semester Course)

<https://youtu.be/P9MF2AJXM4M>

01051 Great Novels (Semester Course)

<https://youtu.be/HDEDjLajQa8>

01058 Mythology (Semester Course)

<https://youtu.be/AbHaAueE538>

Gifted & Talented

22106 Gifted and Talented

The high school Gifted and Talented Program is designed to provide intellectual and creative challenges to those students who have already been identified for the TAG program. The emphasis of the TAG class is to provide opportunities for gifted students to devote time to an intensive, research based independent study in an area of personal interest. Other topics or competitions that students may participate in include, but are not limited to: understanding their personal giftedness, book analysis, class research projects, inductive and deductive logic. Students may also pursue Advanced Placement opportunities through the Iowa Online Academy. There will also be vocabulary study and effective domain projects completed as part of this course.

Human Services

19052 Child Development 1 (Semester Course)

<https://www.youtube.com/watch?v=ed9Fvi10Sys>

This is a semester long course that meets every day and is offered to any student in grades 10-12. Students will learn and discuss topics such as conception, prenatal development, the birthing process, and early childhood development.

19052 Child Development 2 (Semester Course)

<https://www.youtube.com/watch?v=ed9Fvi10Sys>

This is a semester long course that meets every day and is offered to students in grades 10-12. Students will continue exploring the development of toddlers and elementary aged children.

19253 Sports Nutrition (Semester Course)

<https://www.youtube.com/watch?v=AL70xx0RLg8>

This is a semester long course that meets everyday and introduces students to the world of nutrition (food groups, nutrients, and exercise) and how the food they eat affects their body and performance along with what and how to eat in order to keep your body healthy. This class is not only for athletes but for those students who want to live a healthy lifestyle. Learn how to get the peak performance from your body by eating and training in a healthy manner.

19252 ProStart 1 (Year Course)

https://www.youtube.com/watch?v=77B3r_P61lw

This is a year-long course that introduces students to the world of food service. Students will have the opportunity to take a national test and earn college credit. Topics include the following:

1. Foodservice history

2. Keeping Food Safe
3. Workplace Safety
4. Kitchen Essentials
5. Stocks, Sauces, and Soups
6. Communication
7. Management Essentials
8. Fruits & Vegetables
9. Serving Your Guests
10. Potatoes & Grains
11. Building a Successful Career in the Industry

19252 ProStart 2 (Year Course)

This is a year-long course that introduces students to the world of food service. Students will have the opportunity to take a national test and earn college credit. Topics include the following:

1. Breakfast Food & Sandwiches
2. Nutrition
3. Cost Control
4. Salads and Garnishing
5. Purchasing and Inventory
6. Meat, Poultry, and Seafood
7. Marketing
8. Desserts and Baked Goods
9. Sustainability in the Restaurant and Foodservice Industry
10. Global Cuisine 1: The Americas
11. Global Cuisine 2: Europe, the Mediterranean, the Middle East, and Asia

22003 *Pre-Employment Strategies (SDV:153) (Semester Course)

Basic introduction to skills necessary for entry-level employment positions. Networking with local employers will be a key component. A work performance rating and a National Career Readiness Certificate will be awarded based on WorkKeys testing results which will be recognized in interviewing and compensation practices of some local employers. Stresses options for continuing education through NICC programs. This course is a requirement for students in the Career Link program through NICC. Dual credit course.

Iowa Big North

0152 Universal Constructs

General elective credit students can earn through IBN.

22003 Iowa Big English

Mathematics

02052 Algebra 1 (Year Course)

<https://www.youtube.com/watch?v=EiQ7keRz3JI>

This first course in algebra covers the basic structure of the real number system. Topics covered include introduction to algebra, working with real numbers, solving and graphing one-step and two-step equations and inequalities, polynomials and translating word problems into equations, factoring polynomials, fractions, applying fractions, linear equations and systems, introduction to

functions, inequalities, rational and irrational numbers, and solving and graphing quadratic functions. The emphasis is on the structure of algebra and learning the language of algebra. (Linear equations are getting moved to 8th grade math)

02072 Geometry (Year Course)

<https://www.youtube.com/watch?v=6nYLRn1mi6U>

The purpose of geometry is to teach the basic properties of plane figures, such as the triangle, parallelogram, square, rectangle, and circle. There are also units on deductive and inductive reasoning, parallel and perpendicular lines, congruent triangles, similar polygons, construction of geometric shapes using a compass and a straightedge, and finding areas and volumes. Geometry also helps develop the logic required for doing formal proofs. The knowledge will aid students in any endeavor, whether it includes math or not.

02056 Algebra 2 (Year Course)

<https://www.youtube.com/watch?v=5DTbUCV-okg>

Topics covered in Algebra II will include reviewing and increasing the skills involved with positive and negative numbers and zero, the solution of linear equations in two and three variables, solving verbal problems, properties of polynomials and rational expressions, linear and quadratic functions, exponential and logarithmic functions, and developing irrational numbers and complex numbers.

02110 Pre-Calculus (Year Course)

<https://youtu.be/hvI51kSTJaY> (same video as Trigonometry)

This one-year course includes trigonometry and pre-calculus topics as well as a variety of other topics. Pre-calculus topics include polynomial functions, rational functions, trig functions, analytic trig, vectors in a plane, complex numbers, systems of equations and inequalities, matrices, determinants, sequences, series, and mathematical induction. Other topics covered are progressions, binomial expansions, permutations, combinations, graph theory, probability, statistics, rates of change, and sets of numbers. Pre-calculus meets the entrance requirements of three years of high school math for 4-year colleges. Students who plan to attend a 4-year college should take this course.

02103 Trigonometry (Semester Course)

<https://youtu.be/hvI51kSTJaY> (same video as Pre-Calculus)

Trigonometry courses prepare students for eventual work in calculus and typically include the following topics: trigonometric and circular functions; their inverses and graphs; relations among the parts of a triangle; trigonometric identities and equations; solutions of right and oblique triangles; and complex numbers.

02205 *Statistics (MAT156) (Semester Course)

Introduces the basic methods of statistical reasoning to help develop the ability to summarize data, interpret data, and draw conclusions based on the data. (48/0) Prerequisite: A minimum grade of C- in MAT-102, MAT-747, or qualifying placement scores. Dual credit course. 3 NICC credits.

02153 Technical Math (One Semester)

General math skills applied here to various technical math problems giving students the opportunity to work through hands-on daily math problems.

Music

05110 Choir (Year Course- every other day)

Chorus courses provide the opportunity to sing a variety of choral literature styles for men's and/or women's voices and are designed to develop vocal techniques and the ability to sing parts. This

class is a three-semester elective course that focuses primarily on music performance. A variety of music is studied, and students will be introduced to and explore different styles, genres, and cultures. Music fundamentals, taught through music theory, and music history are also important aspects of this class, in addition to ensemble participation. Students will complete worksheets, evaluate personal performances, and participate in out-of class performances in addition to required concerts. Students have the opportunity to perform in concert choir, Wildcat Singers, solo and ensemble contests, and perform the National Anthem at athletic events. Honor choir experiences are also offered.

05101 Band (Year Course- every other day)

General Band courses develop students' technique for playing brass, woodwind, and percussion instruments and cover a variety of non-specified band literature styles (concert, marching, orchestral, and modern styles). Band is a performance-oriented course that provides students with the opportunity to perform in marching band, pep band, and solo and ensemble contest. Students may also have the opportunity to participate in Flag Corps, Honor Bands, and festivals. Each year of band builds upon skills and concepts learned in the previous year(s), and because of this, no high school students may be admitted to band without permission from the director.

05113 Music Theory (Year course)

Physical Education/Health

08001 Physical Education (Required each year)

The physical education department provides numerous activities to help develop the physical fitness of each individual and acquaint the student with a wide variety of activities. Upon completion of 4 years of physical education, the student will understand that through proper diet and activity they can lead a healthy life. The department's goal is that each student will be given the opportunity to understand different types of fitness activities which include personal fitness, individual / dual sports, team sports, and recreational games. Daily personal fitness activities include strength training, speed / power training, movement / flexibility based activities, core based activities, and injury prevention. Sport activities are presented annually or biannually with each unit lasting about three weeks. Some team and individual activities include; softball, basketball, soccer, flag football, volleyball, floor hockey, weight lifting, badminton, pickleball, team handball, speedball, and lacrosse. Some recreational activities may include archery, fishing, ping pong, bocce ball, horseshoes, disc golf, ladder golf, and bean bag toss. Periodically, students will also participate in games of wiffleball, kickball, dodgeball, or capture the flag. Dressing for class is required and failure to do so will result in half credit for that day. A student is required to take Physical Education 1 semester per academic year.

Health 1: Introduction to Health (Year Course- every other day opposite of PE) Required

<https://www.youtube.com/watch?v=zZRYg7x3Jko>

Riceville Community School's health course is designed to establish, promote and support health-enhancing behaviors for students. *National Health Education Standards and Performance Indicators* are used as a guideline for the curriculum covered throughout the class. The following standards provide a framework for student goals in relation to health education:

Health 2: First Aid and Safety (Semester Course)

<https://www.youtube.com/watch?v=zZRYg7x3Jko>

This class is designed to further explore concepts covered in Health 1. Throughout the course, various health topics will be discussed which include, but are not limited to, physical fitness; nutrition; mental health; substance abuse; family health; sexual health; and financial literacy. Throughout the course of the curriculum, there will be an emphasis on first aid and safety. These topics will be covered to increase the knowledge base for individual safety and the safety of others.

Science

03051 Biology (Year Course) Required

<https://youtu.be/sgxEsvwRxXM>

Biology is designed to provide information regarding the fundamental concepts of life and life processes. This course will include topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy.

03159 Physical Science (Year Course) Required

<https://youtu.be/QFzZeOeBxvw>

Physical Science involves the study of the structures and states of matter. This course offers students an opportunity to become more acquainted with the physical world around them. Through the use of audio-visual, traditional and computer-based experiments, class discussion, and group interaction, each student is led to an appreciation of the diversity of matter, various forms of energy, wave phenomenon, electromagnetism, and everyday physical and chemical interactions.

03101 Chemistry (Year Course)

<https://youtu.be/IdeEOHViVgo>

Chemistry involve studying the composition, properties, and reactions of substances. This course will explore such concepts as the behaviors of solids, liquids, and gases, chemical reactions, and atomic structure. Chemical formulas and equations and nuclear reactions are also studied. High school chemistry is very important for anyone who plans to go to college and especially important for careers in agriculture, science, health-related careers, environment, etc.

03151 Physics (Year Course) Junior/Senior Level

<https://youtu.be/ddfLOIyuuys>

Physics involves 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. This course is especially important for anyone planning a career in science, engineering, many health-related and construction-related careers.

03053 Anatomy & Physiology 1 and 03053 Anatomy & Physiology 2: (One Semester Each)

<https://www.youtube.com/watch?v=dXroSQPe390&t=1s>

The *Anatomy and Physiology* course will enable students to develop an understanding of the relationships between the structures and functions of the human body. Covered topics will include: mechanisms for maintaining homeostasis, chemistry of life, cells, tissues, integumentary system, musculoskeletal system, nervous system, sensory organs, endocrine system, circulatory system, respiratory system, digestive system, urinary system, reproductive system, and fetal development. This course will involve laboratory activities, projects, dissections, textbook materials, models, diagrams, and journal writings.

Diseases of the Human Body: (Semester Course)

<https://www.youtube.com/watch?v=6xGbPsnMXs8>

This course will relate to the study of human diseases and organ system involvement, including physical signs and symptoms, prognoses, and common complications and their management. Covered topics will include: infectious diseases, neoplasms, congenital disorders, mental illnesses, and diseases/disorders of the major human body systems (urinary, reproductive, digestive, respiratory, cardiovascular, nervous/sensory, endocrine, musculoskeletal, and integumentary). Coursework will involve microbiology discussions, laboratory activities, projects, textbook materials, online research, and journal writings.

03062 The Natural World: (Semester Course)

<https://www.youtube.com/watch?v=wfEQTKTA7s4>

The Natural World course will be concerned with earth, space, and environmental sciences. Through the coursework, students will receive instruction on various topics related to the world around us...on land, in the water, in the Earth's atmosphere, and beyond. Covered topics will include: chemical reactions and energy in the environment, matter/energy in ecosystems/organisms, interdependent relationships in ecosystems, natural selection and evolution, space systems, history of Earth, weather and climate, and human sustainability. Coursework will involve laboratory activities, projects, textbook materials, journal writings, and engineering design relating to global environmental issues.

03060 Microbiology (Semester Course)

Microbiology courses provide students with a general understanding of microbes, prokaryotic and eukaryotic cells, and the three domain systems. Additional topics covered may include bacterial control, cell structure, fungi, protozoa, viruses and immunity, microbial genetics, and metabolism.

03003 Environmental Science (One Semester)

This course takes a look at various ecosystems and how they work together allowing students many hands-on opportunities to learn about the environment and apply skills.

Social Science

04101 American History (Year Course) Required

https://youtu.be/dEN8UYI_xOs

US History - Comprehensive course provides students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II. This course typically includes a historical overview of political, military, scientific, and social developments. Course content may include some history of the North American peoples before European settlement.

04051 World History, (Year Course) Required

<https://youtu.be/Hqtc1QNJ3g8>

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.

04151 American Government, (Semester Course) Required

<https://www.youtube.com/watch?v=LVoA5LuHm6k>

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.

04254 Psychology (Semester Course)

<https://www.youtube.com/watch?v=HcwAKrYX9G8>

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.

04258 Sociology (Semester Course)

https://www.youtube.com/watch?v=_JDBpU1cA8A

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.

04106 Current Issues (Semester Course)

<https://www.youtube.com/watch?v=ZPB8nQgcYUE>

Contemporary U.S. Issues courses study the political, economic, and social issues facing the United States, with or without an emphasis on state and local issues. These courses may focus on current issues or may examine selected issues that span throughout the 20th century to the present.

04201 Economics, (Semester Course) Required

<https://www.youtube.com/watch?v=XQ4dpTndKcQ>

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.

04001 World Geography (Semester Course)

World Geography courses provide students with an overview of world geography, but may vary widely in the topics they cover. Topics typically include the physical environment; the political landscape; the relationship between people and the land; economic production and development; and the movement of people, goods, and ideas.

Study Skills

22003 Transitional Skills (Year Course) Required if student has an IEP

<https://youtu.be/5oJ3CvivsRY>

Transitional skills is a year long class that offers students the opportunity to hone skills necessary for succeeding in academics. Student goals will be discussed and established, as well as looking at the positives of using a planner, be it daily, weekly or monthly. Strategies and skills will be presented for test-taking and note taking. Visual aids will be a topic to discuss as to interpreting them and creating aids for assignments or projects. Graphic organizers, strategies for remembering information, and interpreting graphs are also topics in this class.

Visual Art

05154 Introduction to Art (Semester Course)

<https://youtu.be/cWkkWw9ieZw>

Comprehensive courses provide students with the knowledge and opportunity to explore an art form and to create individual works of art. These courses may also provide a discussion and exploration of career opportunities in the art world. Initial courses cover the language, materials, and processes of a particular art form and the design elements and principles supporting a work of art. As students advance and become more adept, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic styles. Although Creative Art courses focus on creation, they may also include the study of major artists, art movements, and styles.

05156 Drawing & Design (Semester Course)

https://youtu.be/vB6PIOn6o_o

Creative Art—Drawing courses cover the same topics as Creative Art—Drawing/Painting, but focus on drawing. In keeping with this attention on two-dimensional work, students typically work with several media (such as pen-and-ink, pencil, chalk, and so on), but some courses may focus on only one medium or explore other media.

05169 Digital Photography (Semester Course)

Digital photography courses enable students to discover and explore how the computer can be used to create or to assist in producing various forms of artwork. These courses provide the opportunity to become more adept in both the art form and in the use of the computer. Students need to have a digital camera with manual options for the course.

05159 Ceramics (Semester Course)

This course will be an introduction to clay and how to safely work with it. Emphasis will be placed on the design elements of texture, line, color, and shape. Students will learn the basics of hand building techniques such as pinch, coil and slabs. We will create functional pieces as well as sculptural. Students will also learn a variety of techniques dealing with glaze and the function of the kiln.

11151 Multimedia Productions (Year Course)

These courses are designed to give students the skills necessary to support and enhance their learning about digital media technology. The main project focused on is the completion of the school yearbook. Topics covered in the course may include internet research, copyright laws, web-publishing, use of digital imagery, electronic forums, newsgroups, mailing lists, presentation tools, and project planning.

World Language

06101 Spanish 1 (Year Course)

<https://drive.google.com/file/d/0B5wo-FICFz5acmFGU2JGS2tBUjQ/view?usp=sharing>

Designed to introduce students to Spanish language and culture, Spanish I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people. Students wishing to move on to Spanish 2 need to earn a C or above in the last semester.

06102 Spanish 2 (Year Course)

<https://drive.google.com/file/d/0B5wo-FICFz5aSDJJWC1ic0RkSlU/view?usp=sharing>

Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s). Students wishing to move on to Spanish 3 need to earn a C or above in the last semester.

06103 Spanish 3 (Year Course)

<https://drive.google.com/file/d/0B5wo-FICFz5ac3BjcUJDWER1SVU/view?usp=sharing>

Spanish III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal

rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

06104 Spanish 4 (Year Course)

<https://drive.google.com/file/d/0B5wo-FICFz5aMnJoUXBvdXBJWVE/view?usp=sharing>

Spanish IV courses focus on advancing students' skills and abilities to read, write, speak, and understand the Spanish language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary.

Northeast Iowa Community College Courses

PICC (Placement in College Courses): These are online course options for juniors and seniors only. They are independently taken during a class period that fits for the student. Students must meet testing prerequisites for certain courses and deadlines to register for courses as set up by our district and NICC.

PICC offerings vary from semester to semester. Courses are to be taken through the Northeast Iowa Community College; if there is a course that NICC does not offer that NIACC does, we will ask for approval from NICC in order for the student to take the course through NIACC.

To find current PICC courses, go to nicc.edu and click on "Search for Courses". Click "Search for Credit Courses". Then select the term and "online" for location in order to see the courses available.

To find NIACC courses, go to niacc.edu. Under "Quick Links", click on "Web Advisor" under "Student Tools". Then click on "Prospective Students". Click on "Search for Sections", then select the term and "Web-Based" for online course location.

See Mrs. Dohlman for assistance with college courses and requirements