RAYMOND CENTRAL PUBLIC SCHOOLS

High School Course Catalog 2025-2026

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Agriculture

Agribusiness counts as a business credit or elective credit. All other classes are vocational elective classes.

Courses are offered on a requested rotation based on student course choices.

**In order to be a member of the National FFA Organization, students in grades 9-12 must be enrolled in at least one semester of an Agricultural Course a school year. Grades 7-8th may also join the National FFA Organization as well.

Agriculture Classes	**Length**	**Prerequisites**	**Description**
Introduction to Agriculture, Food, and Natural Resources (AFNR)	Semester	None	Students participating in the Introduction to Agriculture, Food, and Natural Resources (AFNR) course will experience hands-on activities, projects, and problems. Student experiences will involve the study of FFA, communication, the science of agriculture, plants, animals, natural resources, and agricultural mechanics.
Fundamentals of Ag Marketing	Semester		Study of new market opportunities in the agriculture industry. Developing a marketing plan and promotional strategies for agriculture products. **SENCAP Course**
Agribusiness	Semester	None	Agricultural Business(Agribusiness) introduces students to business management in agriculture. Throughout the course are practical activities, projects, and problems to develop and improve business and employability skills. The Agribusiness course includes activities and projects that focus around the following areas: starting a business, financial documents, risk management, and writing a business plan.
Animal Science	Semester	Intro to Ag	Animal Science is a foundational level course where students explore the world of animal agriculture and develop a management guide for an animal of their choice. Areas of study include history and domestication, handling and behavior, anatomy and physiology, and nutrition.

Adv. Animal Science	Semester	Animal Science	Advance Animal Science is an intermediate level course where students explore the world of animal agriculture and develop a management guide for an animal of their choice. Areas of study include nutrition, reproduction, herd health management, and marketing.
Veterinary Science	Semester	Animal Science and Adv. Animal Science	This course introduces students to the basics of veterinary care. Topics covered include general animal care and welfare, animal health, laws and ethics relating to animal care, and workplace safety involving large, small, and exotic animals. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.
Companion Animals	semester		Principles and practices for the life cycle and care of companion animals which may include nutrient regimen, breed identification, various infections and non-infectious disease diagnostics and treatment, anatomy, physiology, parasitic life cycles and internal and external identification, medication requirements for certain problems and the importance of companion animals in contemporary society. **SENCAP Course**
Livestock Production	semester		A comprehensive introduction to livestock production utilizing current literacy and terminology. **SENCAP Course**
Plant Science	Semester	None	Plant Science provides a foundation of plant science knowledge and skills. Students will experience various plant science concepts through activities, projects, and problems. Student experiences will include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. The course includes the following units of study:Soils, anatomy and physiology, taxonomy, the growing environment, plant reproduction, environmental factors, and crop production and marketing.
Crop and Food Science	semester		Principles and practices of production of the major agronomic crops of the high plains. **SENCAP Course**

Stick Metal Arc Welding (SMAW) I	Semester	10th grade or older	This course will follow the Southeast Community College Dual-Credit welding course class outline.Students have the option to enroll in Dual-Credit or to just take the course for high school credit. The course will focus on basic theory, principles, and skills associated with Stick Metal Arc Welding (SMAW).
Gas Metal Arc Welding (GMAW) I	Semester	10th grade or older	This course will follow the Southeast Community College Dual-Credit welding course class outline.Students have the option to enroll in Dual-Credit or to just take the course for high school credit. The course will focus on basic theory, principles, and skills associated with Gas Metal Arc Welding (GMAW).
Oxyacetylene Welding & Cutting Processes	Semester	10th grade or older	This course will follow the Southeast Community College Dual-Credit welding course class outline.Students have the option to enroll in Dual-Credit or to just take the course for high school credit. The course will focus on basic theory, principles, and skills associated with Oxyacetylene Welding & Cutting Processes
Power Tech formally Small Engines - NDE update	Semester	None	This course is designed to provide students with introductory level experiences in selected major areas of agricultural mechanics technology which may include agricultural structures, electrical wiring, and power equipment operation and maintenance. Learning activities include information, skill development, and problem solving.

Nebraska Department of Education Program of Study for Agriculture Education available at Raymond Central

Agriculture Power, Structure, and Technical Pathway -- Complete

- Intro to AFNR (Introductory Course)
- Welding (SMAW, O/A, GMAW) (Intermediate Course)
- Power Tech (Intermediate Course)
- Metals and Fabrication (Capstone Course)

Agribusiness -- **Complete**

- Intro to AFNR(Introductory Course)
- Agribusiness (Intermediate Course)
- Fundamentals of Ag Marketing (Capstone Course)

Animal Science –Complete

- Intro to AFNR (Introductory Course)
- Animal Science & Advance Animal Science (Intermediate Course)
- Livestock Production (Intermediate Course)

- Vet Science (Capstone Course)
- Companion Animals (Capstone Course)

Plant Science -- **Completed**

- Intro to AFNR (Introductory Course)
- Plant Science (Intermediate Course)
- Crop and Food Science (Capstone Course)

SCC SENCAP Certificates Available

Fundamentals of Agriculture Certificate

- Fundamentals of Ag Marketing
- Crop and Food Science
- Introduction to Livestock Production
- Companion Animals

Business/Computer Technology

Graduation requirements are IT Applications and then 10 more from this department. 15 total credits

Once requirements are met all other courses are counted as electives.

Business

Business Classes	Length	Prerequisites	Description
Intro to Business	Semester	None	A course designed to provide instruction in business concepts and skills students need in today's competitive environment. The course covers business concepts such as basic economics, economic indicators, marketing, management, and global issues.
Management and Leadership	Semester	Intro to Business	This course is designed to teach the theory of entrepreneurship, impact of the economy on business, and management styles. It provides an overview of how a business operates including business ethics, forms of ownership, planning and production, marketing strategies, product development, pricing and promotion, and utilizing human resources.
Business Law	Semester	Intro to Business	A course designed to present the study of the legal rights and responsibilities necessary to be informed and productive citizens, employees, employers, and consumers in the free enterprise system. Key concepts include Ethics and Law, Criminal Law, Tort Law, Court System, Trial Procedures, Contracts and Leases. Students are introduced and participate in a mock trial.
Accounting 1 Accounting 2	Year	Intro to Business	Beginning Accounting provides students with instruction in the terminology and concepts of sole proprietorships, partnerships, and corporations. Double-entry accounting principles and procedures are applied in maintaining business records for both service and merchandising businesses. Students are provided with opportunities for hands-on experiences on the computer using Cengage Learning.

Accounting 3 Accounting 4	Year	Intro to Business	This is a two semester course that includes partnership and corporate accounting, departmentalized accounting, adjustments in inventory control systems, and further enhancement of accounting skills. While also examining different types of accounting principles within different organizations, adjustments in inventory control systems, and budgetary control systems. Students are provided with opportunities for hands-on experiences on the computer using Cengage Learning.
Agribusiness	Semester	None	The curriculum is designed to help students improve their agribusiness management skills. The major units are sales, marketing, finance, recordkeeping, and economics.
Entrepreneurship	Semester		Entrepreneurship is a course with emphasis on the evaluation of the business skills and commitment necessary to successfully operate an entrepreneurial venture and review the challenges and rewards of entrepreneurship. The role of entrepreneurial businesses in the United States and the impact on the national and global economy will be explored.

Nebraska Department of Education Program of Study for Computer Technology available at Raymond Central

Accounting
Introduction to Business (Introductory Course)
Accounting 1 and 2 (Intermediate Course)
Accounting 3 and 4 (Capstone Course)

Management
Introduction to Business (Introductory Course)
Business Law (Intermediate Course)
Management and Leadership (Capstone Course)

Finance
Introduction to Business (Introductory Course)
Accounting 1 (Intermediate Course)
Economics or Statistics (Capstone Course)

Entrepreneurship
Introduction to Business (Introductory Course)
Accounting 1 (Intermediate Course)

Entrepreneurship (Capstone Course)

Computer Technology

Computer Technology Classes	Length	Prerequisites	Description
IT Applications 1	Semester	None	Students will explore emerging technologies as it applies to their success for high school, college, and career. The focus will be on the importance of digital citizenship, professional communication practices, advanced document processing, professional presentations, and intermediate spreadsheet and database applications used personally and professionally. Topics covered include Computer Science, Computer Literacy, Education Technology, Digital Citizenship, and Information Technology. Students will also have the opportunity to become certified in Microsoft Word and PowerPoint through the Nebraska IT Initiative. This course meets the requirements for the Computer Science & Technology Act, Stature 79-3305.
IT Applications 2	Semester	IT Applications 1	This course will focus on skill development in data science using spreadsheet, database, and integration of applications utilizing advanced features. Skills, standards, and coursework align with industry certifications. Students will also have the opportunity to become certified in Microsoft Excel and Microsoft Access through the Nebraska IT Initiative.
IT Fundamentals	Semester	IT Applications 1 & IT Applications 2	Students are introduced to the proper use of information technologies (IT). In addition, they will be introduced to hardware and software selection and use, technology resource support, and ethical issues. Students will investigate information technology careers and certifications in networking, programming, and IT support services. Units would include, but not be limited to, exploring concepts in networking, programming, and support services, computer hardware components and peripherals, system and application software, and impact of technology on society

Digital Design	Semester	IT Applications 1	Students will focus on developing advanced skills to plan, design, and create interactive projects using elements of texts, graphics, and digital imaging. These skills will prepare students for entry-level positions in the digital design field. Students will demonstrate proper use of copyright and fair use throughout the course.
Digital Media	Semester	IT Applications 1	Students will learn and apply copyright laws while using industry standard digital tools to create, design, and produce digital media including sound, video, motion graphics, and print design following rules of composition and basic design principles.
Foundations of Web Design	Semester	IT Applications 1 & IT Applications 2	Students will demonstrate knowledge of web and mobile app design to create an effective website or app that captures and keeps visitors' interests. Students will demonstrate project management skills, while also enhancing creativity, problem solving, and critical thinking. Students will explore career opportunities in an information technology career field.
Web Design & Development	Semester	IT Applications 1 & IT applications 2 & Foundations of Web Design	Students will demonstrate advanced knowledge of web/app design and languages by creating a content rich and visually-pleasing website/app that captures and keeps visitors' interests. Focus will be given to effective page layout, image creation and manipulation, interactivity, content creation, and project management.
Networking	Semester	IT Applications 1	This course is a study of the networking fundamentals in regards to managing home and corporate network systems and protocols. Students will design, plan, implement, and support computer networks. Students will also enhance problem solving, critical thinking, and analytical skills throughout this course.
Cybersecurity	Semester	IT Applications and IT Fundamentals **OR** Networking	This is a survey course that explores fundamental knowledge and skills in the field of cybersecurity. Topics explored include cryptography, software and network vulnerabilities, governance, global impacts, and career fields in information assurance.

Computer Science Principles	Yearlong	IT Applications 1	This is a PTWL Course for the year 2024-2025. Computer Science Principles introduces students to the foundations of computer science with a focus on how computing powers the world. Along with the fundamentals of computing, students will learn to analyze data, create technology that has a practical impact (addresses a real-world problem or need), and gain a broader understanding of how computer science impacts people and society.

Nebraska Department of Education Program of Study for Computer Technology available at Raymond Central

Business Technology

IT Applications 1 and IT Applications 2 (Introductory Course)
Digital Design (Intermediate Course)
Foundations of Web Design (Capstone Course)

IT Operations Management
IT Fundamentals or IT Applications 2 (Introductory Course)
Cybersecurity (Intermediate Course)
Networking (Capstone Course)

Web Development
IT Fundamentals or IT Applications 2 (Introductory Course)
Web Design and Development (Intermediate Course)
Foundations of Web Design (Capstone Course)

Digital Design
Digital Media (Introductory Course)
Digital Design (Intermediate Course)
Adv. Digital Design or Foundations of Web Design (Capstone Course)

English Language Arts

45 credits are required for graduation; 4 years of English; 1 semester of Personal Communications

*indicates required courses

SCC Composition I and II or SCC Literature with our instructor can be substituted for English 12 as long as students meet admissions requirements

Personal Communications can be substituted with Competitive Speech or Life Skills Speech depending on Individual Education Plans

English Language Arts Classes	**Length**	**Prerequisites**	**Description**
*English 9	Year	None	The course theme of English 9 is "The Literary Canon." We will primarily focus on "must-read" texts and discuss how and why they have earned their place in the canon. As we work through these texts, we focus on reading, writing, and listening skills.
*English 10	Year	None	This course is devoted to helping students improve their skills as readers, writers and thinkers, as well as expose them to important literature from a variety of genre. Students will focus on the categories of writing, reading, communication, or life skills. We will also be exploring the themes of culture and world literature, so our reading will represent a wide variety of times, people and places.
*English 11	Year	None	The class theme for English 11 is "American Literature." This includes learning about literary movements. Our class will also focus on building skills needed for the ACT and beyond.
*English 12	Year	None	The purpose of this course is to meet Nebraska state standards for 12th grade English. Students will concentrate on critical thinking, critical reading, analysis of literature, argumentation, grammar, writing and vocabulary. This course will provide an

			in-depth focus on selected texts including novels, non-fiction, and other works with an emphasis in British Literature.
SCC Composition I - ENGL 1010	Semester	ACT 20 or higher in Reading and English	Composition I offers instructional practice in the techniques of effective writing. The process of planning, writing, revising, and editing essays for particular audiences and purposes and research-related skills are also emphasized.
SCC Composition II- ENGL 1020	semester	ACT 20 or Higher in Reading and Composition I	Students will read and analyze various texts and respond with research-based argumentative essays that demonstrate information literacy, critical-reading, and source integration. A significant research project is required.
SCC Intro to Literature	Semester	ACT 20 or higher in Reading and English; Composition I	Introduction to the major genres and conventions associated with literature. Includes fiction, poetry, and drama. By employing critical reading/thinking skills and analytical and creative writing skills, students will understand literature more fully. Exposure to a range of authors representing a variety of cultural and ethnic backgrounds.
*Personal Communications	Semester	None	This course is designed to help students with oral expression. Good oral communication is essential to a productive life. The speech course attempts to provide oral communication exercises that develop skill and self-confidence in speaking, both in public and private.
Life Skills Communications	Semester	Instructor Permission -offered as needed-	The course focuses on social interaction and the skills necessary for success in school and life. Touching on communication training and practical life skills ensures students who take this course will be better able to communicate post high school.
Competitive Speech	Semester	Instructor Permission	This course is valuable for those students interested in higher education or in careers in law, business, entertainment, or politics. It prepares students for interscholastic competition speech tournaments. The course will require considerable research in school,

			public, and possibly college libraries. It will also require written composition of all speeches, whether in expository or expanded outline form. Students will be required to develop and maintain a personal speech competition file. Tournament competition is a requirement of this course. Each student will be required to compete at Millard North Novice, Lincoln East Novice, and then at a choice of either Lincoln Southeast varsity meet or UNL varsity meet. Students may compete at as many competitions as they'd like, but the ones previously listed are class requirements.
Adv. Competitive Speech	Semester	Instructor Permission	This course is valuable for those students interested in higher education or in careers in law, business, entertainment, or politics. It prepares students for interscholastic competition speech tournaments. The course will require considerable research in school, public, and possibly college libraries. It will also require written composition of all speeches, whether in expository or expanded outline form. Students will be required to develop and maintain a personal speech competition file. Tournament competition is a requirement of this course. Each student will be required to compete at Millard North, Schuyler, Lincoln Southwest, and then at a choice of either Lincoln East varsity meet or Norfolk varsity meet. Students may compete at as many competitions as they'd like, but the ones previously listed are class requirements. Conference and Districts may also be required depending on team size.
Journalism/Yearbook	Year	10th grade or older	Yearbook is a yearlong course. It's a lot of writing, working under pressure, taking feedback from peers and sometimes doing things you don't want to do, like interview unfamiliar students. Our yearbook is a student-run publication. *It is a time to be creative, collaborative, and productive to provide the best memory of this school year.* Students will have staff and leadership roles.

Creative Writing	Semester	10th grade or older	This course focuses on the act of writing as a means of self-discovery as well as the expression of the inner self. Participants will learn their strengths and capabilities as a writer through trial and error. Focus will be on writing within specific genres as well as when to use them, or in some cases, bend them.
SCC Public Speaking	Semester	Meet SCC admissions requirements; pass Personal Communications	This course is an introduction to speech communication which emphasizes the practical skill of public speaking, including techniques to lessen speaker anxiety, and the use of visual aids to enhance speaker presentations. Civility and ethical speech-making are the foundations of this course. Its goal is to prepare students for success in typical public speaking situations and to provide them with the basic principles of organization and research needed for effective speeches.
SCC Business Communications	Semester	Meet SCC admissions requirements; pass Personal Communications	The study of communication to function successfully with others in the workplace. Focus on the basic processes of communications including: communication and cultural diversity, developing interpersonal relationships, interviewing techniques, working in small groups and teams, managing effective meetings, and various types of presentations (including individual and group). Students will perform at least three research-based oral presentations before an audience.

Family Consumer Science

5 credits are required, seniors will take Career and Life Readiness to fulfill this requirement.

All other courses are counted as vocational electives.

FCS Classes	Length	Prerequisites	Description
Life and Career Readiness	Semester	None	Required - fulfills NDE Personal Finance requirement Life and Career Readiness (LCR) will cover a variety of topics required to complete the senior file for graduation. Topics such as taxes, bank reconciliation, budgeting, table setting and mock interviews will be discussed.
Fundamentals of Nutrition and Culinary Essentials	Semester	None	Fundamentals of Foods and Nutrition is the basis for the Culinary Arts track and a requirement to take Culinary Skills I and II in addition to Baking and Pastry. Students will focus on food preparation techniques while creating a variety of recipes from all food groups and meal categories. In addition basic wellness topics such as nutrition labels, MyPlate, dietary recommendation and meal planning will be discussed. Students will create recipes using a variety of kitchen equipment and across all the food groups/menu categories.
Culinary Skills 1	Semester	Fundamentals of Nutrition and Culinary Essentials	Culinary I will continue to build on the skills learned in Fundamentals of Nutrition and Culinary Essentials. Topics include discussions/planning for kitchen safety, recipe and menu planning, cooking methods, techniques and much more! Students will again create recipes that use various techniques and tools from all the food groups/menu categories.
Culinary Skills 2	Semester	Fundamentals Nutrition and Culinary Essentials and Culinary Skills 1	Culinary Skills II will take food preparation to the next level. Students will have the opportunity to put their skills into action by creating foods that will be served outside of the classroom through the Central Cooks Snack Cart. Customer service skills, recipe costs, and presentation will be utilized as students create products to serve various needs customers.

Baking and Pastry	Semester	Fundamentals of Nutrition and Culinary Essentials and Culinary Skills 1	Baking and Pastry focuses on planning and preparing baked goods. Topics include understanding the function of ingredients, measurement/recipes, baking and pastry techniques. Baked goods and pastries in various categories such as Quick Breads, Yeast Breads, Cakes and other desserts will be created.
Apparel Construction and Production	Semester	Intro to Design	Apparel Production and Construction is a course designed for students who are interested in textiles and fashion. Products will be created using basic construction techniques. Alteration and care of clothing techniques will be practiced. Various types of textiles will be discussed and utilized. Students will investigate careers within the textile industry. Apparel Production and Construction is a hands-on class that provides an engaging environment for learning!
Intro to Design	Semester	None	This introductory course explores the areas of Apparel and Textiles and Home Design and Interiors in an introductory level course. Some topics discussed include; Elements and Principles of Design, basic construction and interior design techniques/skills and careers opportunities in both areas.
Home Design and Interiors	Semester	Intro to Design	Home Design and Interiors discusses various topics of Interior Design, including floor plans, housing styles, design boards, careers in careers and incorporating elements and principles of design. Students will be creating various physical and digital projects related to the area of interior design.
Child Development	Semester	None	This course studies the development a child experiences from prenatal development through childhood. Special Activities include the parenting simulation of “Reality Works Baby”. Parenting styles, development of children through various ages and more! This class is a must if you are interested in working with children in a career or having your own children someday.
Best Practices in Early Childhood	Semester	Child Development	This course gives you the opportunity to learn what it takes to work in a childcare or preschool setting. You will have the opportunity to observe and work hands-on with preschool students.

Education with WBL			Students spend 1 class period a week in the preschool. Observation of children, lesson plans, classroom set up and classroom activities are some topics discussed in this course.
Early Childhood Education Practicum with WBL	Semester	Child Development, Early Childhood Educational Services	Early Childhood Education Practicum with Work Based Learning gives students the opportunity to to spend time in the preschool setting. Daily class periods will be spent in the preschool. Students will work with the preschool staff to create and implement classroom activities.

Nebraska Department of Education Program of Study for Family Consumer Science available at Raymond Central

Early Childhood Education Pathway
Child Development (Intermediate Course)
Best Practices in Early Childhood Education with WBL (Intermediate Course)
Early Childhood Education Practicum with WBL (Capstone Course)

Culinary Arts and Event Planning Pathway
Fundamentals of Nutrition and Culinary Essentials (Introductory Course)
Culinary Skills I (Intermediate Course)
Baking and Pastry (Capstone Course)
Culinary II (Capstone Course)

Design Pathway
Introduction to Design (Introductory Course)
Apparel Production and Construction (Intermediate Course)
Home Design and Interiors (Intermediate Course)
Advanced Digital Design (Capstone Course) - Computer Technology (CIS)

Child Youth and Family Studies
Child Development (Intermediate Course)
Interpersonal Relationships (Capstone Course)
Life and Career Readiness (Expanding Learning Opportunity)

Fine Arts

10 credits are required for graduation within the Fine Arts Department.

Courses are offered on a requested rotation based on student course choices. Once requirements are met all other courses are counted as electives.

Art:

Art Classes	Length	Prerequisites	Description
Intro to Art	semester	none	This introductory studio course is a one semester elective that will prepare the student for further high school art experiences. The student will be introduced to skills and media that are utilized in the other art electives including: drawing, painting, ceramics, the elements and principles of design, color theory, the critical process, and keeping a sketchbook journal.
Drawing I	semester	Intro to Art	This studio course is a one semester elective offered to students who have a desire to learn the fundamental skills of drawing from reality. Measuring with a ruler, estimating size and visualizing proportional relationships are necessary skills that will be built upon in this sequential, traditional course of study. Weekly sketchbook assignments are an important part of the course and independent practice and application of learned skills are recommended for success.
Drawing II	semester	Intro to Art, Drawing I	This course is a continuation of Drawing II and provides a deeper exploration into the fundamental skills of drawing from observation. Personal choice, symbolism, and specific themes are used to create a piece of artwork that has meaning through the use of two-dimensional drawing materials.
Painting I	semester	Intro to Art	This exploratory course provides a creative and innovative environment for students who have an interest in color and wish to improve their creative skills, learning new ways to be visually expressive. Using watercolor, acrylic and tempera paints students will explore techniques, styles and subjects. Understanding the steps necessary to develop working drawings into paintings, students will use the artistic processes of creating, presenting, responding and connecting in this class. These processes develop skills that can be applied

			globally when planning, thinking, talking and about their work and the work of others.
Painting II	semester	Intro to Art, Painting I	This course is a continuation of Painting I. It provides a deeper exploration into two- dimensional techniques and emphasis on the development of a student's individual point of view. Personal choice, symbolism, and themes are used to create a piece of artwork that has meaning.
Graphic Design I	semester	none	Students will be introduced to the basic principles of design and the fields of advertising, graphic design, and typography while using the Adobe Illustrator program and/or Adobe InDesign. While utilizing the design process, students will learn the power of both word and image in communicating ideas and information.
Graphic Design II	semester	Graphic Design I	Students will continue to utilize the design process. Projects will simulate real world design problems such as page layout, magazine ads, book jacket designs and posters incorporating photographic imagery and photo manipulation. Students will exercise their ability to observe, think creatively, and generate good ideas through the use of digital media.
Ceramics I	semester	Intro to Art	Ceramics I gives students the ability to understand the basic fundamentals of clay and the important role it plays in our world. Students learn the basic ways of creating ceramic forms through hand building such as pinch, coil, and slab. Throughout the semester students will gain knowledge about the different stages of clay and multiple methods of decorating and firing. Assignments include both functional and decorative objects. Through exploration of techniques, students are encouraged to express creativity and originality.
Ceramics II	semester	Intro to Art, Ceramics I	Ceramics II concentrates on perfecting and elaborating on skills such as exploration of surface design, wheel throwing, combining hand building techniques, and creating pots with handles and lids. Students learn to develop ideas for pottery making and decoration by researching the work of known ceramic artists and studying the characteristics of ceramic work from various cultures. Through the artistic processes of presenting, responding and connecting, students will evaluate their own work and the work of others through oral and written communication.

Independent Study	semester	Intro to Art, Either Painting I & II, Graphic Design I and II, Ceramics I and II, or Drawing I & II Must be approved by Instructor	This course expands the knowledge of observation, creating, reflecting, and presenting from Beginning Art with continued practice. New and more elaborate skills, materials, and techniques will be added while maintaining proficiency gained in previous classes. Students will be expected to keep a sketchbook and be more independent in making artistic decisions about subject matter, media, and techniques. Students will refine their use of creative problem solving skills to develop compositional skills, be able to communicate the intention of their artwork, and will increase a better understanding of themselves and others. Reflecting on individual ideas and art making will become more automatic and personal choice will be emphasized. These students are of higher skill level and have the ability to utilize the student-led curriculum with only meeting a minimum of requirements while still being able to create extremely detailed and perfected pieces of artwork. These students are required to create a digital website portfolio displaying the process of their projects from beginning to end with detailed journal entries.
2D Design	Semester College Credit	Intro to Art	A course which focuses on the fundamentals of visual composition and design theory. Students work in various media, exploring the visual potential of line, color, texture, pattern, light and shadow, and space. Students will be able to apply the principles and elements of design, to understand how these principles and elements interact, and to analyze and evaluate the quality of design and form.
3D Design	Semester College Credit	Intro to Art Ceramics 1	Study of three-dimensional design using various materials such as paper, wire, plaster, tape, clay, and cardboard. Students will be able to construct three-dimensional sculptures from various materials using the principles and elements of design.

Music

Music Classes	Length	Prerequisites	Description
Band	Semester/Year	Previous experience in band or coordination with the director.	Band is a year-long course that explores multiple opportunities for students to engage in instrumental music-making. Students will experience marching band, athletic pep band, as well as concert band. An extra-curricular jazz band is also offered before school starting in mid-October through the end of the year. Students work collaboratively to produce a variety of quality music performances that demonstrate their individual skills in a large ensemble setting.
Choir	Semester/Year	None	Choir is a year-long course that explores choral music from a wide variety of cultures and time periods through study and performance. This class is designed for students to create musical experiences in a collaborative environment. The core curriculum for this class includes the development of vocal technique, sight singing with the use of the solfege system, performance skills, and the ability to work together as a team to produce music at the highest level possible.

Foreign Language

This is not a graduation requirement but recommended for college admissions.

All courses count as electives.

Foreign Language Classes	Length	Prerequisites	Description
Spanish 1	Year	None	Spanish 1 will provide the students with a general introduction to the Spanish language. Emphasis will be on the acquisition of four skills: listening, speaking, reading, and limited writing. There are two main objectives to the course. First is to give the students the ability to carry on a simple conversation. The second is to provide the students with instruction that teaches a basic understanding of Spanish culture, vocabulary, and grammatical concepts.
Spanish 2	Year	Spanish 1	Spanish 2 builds upon knowledge gained in Spanish 1. This course will also reinforce the skills learned in Spanish 1: listening, speaking, reading, and writing. Emphasis is on perfecting pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency. Acquisition of vocabulary is expected.
Spanish 3	Year	Spanish 2	This course builds upon the knowledge of Spanish 1 and 2. Students will be expected to use their knowledge from Spanish 1 and 2 to expand their vocabulary and grammatical structures. Emphasis will be on speaking, writing, and reading while learning new vocabulary and verb tenses.
Spanish 4	Year	Spanish 3	Spanish 4 expands the student's knowledge of the Spanish language through listening, speaking, reading, and writing. The course builds upon the knowledge of Spanish 1, 2, and 3. The students will be expected to communicate as much as possible in the target language. The students will improve on their reading and writing skills.

Skilled Technical Sciences

All Courses count as vocational elective credit.

Industrial Tech Classes	Length	Prerequisites	Description
Intro to STS	Semester	None	The course provides an overview study of the Skilled and Technical Sciences. It also provides the opportunity to explore the many career possibilities in the world of CTE. Classroom and laboratory activities are supplemented through supervised experiences and leadership programs and activities.
Woods Manufacturing Process 1	Semester	Intro to STS	This course is an introductory, hands-on study of woodworking. Students will learn the basics of reading blueprints, basic joinery, constructing a project with only hand tools, and how to safely use machines and power tools to construct a small project as well as a small custom project.
Woods Manufacturing Process 2	Semester	Intro to STS & Woods MP 1	The course provides an advanced, hands-on study of woodworking. Students will learn how to create blueprints, a step by step instructions, and a cut list. The course also covers advanced joinery practices, door and drawers for cabinets, and how to maintain or change fixtures on a machine.
Construction Trades 1 & 2	Year	Intro to STS	The course provides an introductory, hands-on study of residential construction. The course covers all the processes to construct a residential home. The students also receive their OSHA-10 Certification, certified by CareerSafe.

Nebraska Department of Education Program of Study for Skilled and Technical Sciences available at Raymond Central

Construction - completed

Introduction to STS (Introductory Course)
Construction 1(Intermediate Course)
Construction 2 (Capstone Course)

Manufacturing - completed
Introduction to STS (Introductory Course)
Manufacturing Woods Process 1 (Intermediate Course)
Manufacturing Woods Process 2 (Capstone Course)

Welding - completed
Introduction to STS (Introductory Course)
GMAW, O/A, SMAW (Intermediate Course)
Metals and Fabrication (Capstone Course)

Math

Students will continue their Math track 30 credits of 3 separate math courses are required. Algebra 1 is to be taken prior to General Math.
Note: University of Nebraska System (UNL) requires 4 years of Math to be accepted. And must be Algebra 1, Geometry, Adv. Algebra and a year that builds on Adv. Alg.
+Can be taken for college credit

Math Classes	**Length**	**Prerequisites**	**Description**
Algebra 1	Year		This course is an introduction to the following mathematics concepts: equations and expressions, linear equations (solving, writing and graphing), solving systems of equations, exponential properties and story problems, adding, subtracting and multiplying polynomials, factoring polynomials, graphing and solving quadratics, radicals (simplifying, solving), rational expressions (adding, subtracting, multiplying, dividing and solving), probability(permutations, combinations, mean, median, mode and range)
Geometry	Year	Algebra 1	Geometry introduces the study of points, segments, triangles, polygons, circles, solid figures, and their associated relationships as a mathematical system, as well as a focus on developing reasoning and problem solving skills, not necessarily all mathematical in nature (such as in proofs). Emphasis is placed on the description and use of inductive, deductive, and intuitive reasoning skills. Powers of abstract reasoning, spatial visualization and logical reasoning patterns are improved through this course. Points, segments, triangles, polygons, circles, and solid figures are the structures studied. There is also a focus on comparisons between figures concerning surface areas, volumes, congruency, similarity, transformations, and coordinate Geometry. Algebra I skills are used throughout the course.
Advanced Algebra	Year	Geometry	Advanced Algebra (Algebra 2) has major areas of study including a review of open sentences in one and two variables, polynomials and factoring, rational numbers and expressions, relations and functions, irrational numbers and quadratics, quadratic relations, equations and systems,

			exponential functions and logarithms, and complex numbers. Other areas of content include properties of real numbers, linear systems, roots and radicals, linear inequalities and some trigonometry and statistics. A scientific calculator with trigonometric functions is highly beneficial (for example, Casio fx-300ES PLUS or TI-30x lls).
+Precalculus (SCC College Algebra/SCC Trigonometry)	Year	Advanced Algebra (to take for college credit, must have a B in both semesters)	**First Semester - College Algebra**: Review: Basic Algebra Skills, Graphing Equations and Linear Equations, Functions and their Graphs, Linear and Quadratic Functions, Polynomial and Rational Functions, Exponential and Logarithmic Functions, Conics **Second Semester - Trigonometry**: Review plane geometry with emphasis on circles and their equations. Review Graphing techniques for Functions (Transformations), Develop the definitions of the trigonometric functions using right triangles, general angles in the plane, and the unit circle. Develop the properties and graphs for each trigonometric function along with techniques for graphing the trigonometric functions, Use trigonometric functions to model and interpret applications which are cyclic in nature, Develop and apply trigonometric identities, Develop and apply definitions of inverse trigonometric functions, Develop techniques for simplifying trigonometric expressions, and solving trigonometric equations, Use trigonometric functions to solve applications involving triangles, Present the polar coordinate system, and techniques for graphing polar equations, Introduce vectors, and vector operations.
+Calculus	Year	Precalculus	This course will introduce the notion of a limit and how to solve a limit. Students will learn how to use the limits to develop the concepts of the derivative and integral. Then we will apply derivatives and integrals to all types of functions.
General Math	Year	Algebra 1	This class is designed to help those students who have finished Algebra I, but can't progress into Geometry. It is a math skills class that repeats and teaches the fundamentals of real-life math skills to students.
+Statistics (Dual Credit)	Semester	Precalculus/ SCC College Algebra	The course is an introduction to basic probability and statistical methods that are used in a wide variety of disciplines. Topics include descriptive statistics, probability foundations, probability distributions, sampling distributions, methods of statistical inference, and bivariate relationships.

Physical Education/Health

5 credits of Health are required for graduation and 5 credits of Physical Education

PE Classes	Length	Prerequisites	Description
Health	Semester	None	The purpose of this class is to help students make choices that will improve and maintain good health. Personal health requires personal responsibility. It is important for students to understand that the decisions they make each day can have a lasting impact on their health and quality of life for years to come. Knowledge is power. Throughout this semester, the goal is to reinforce and add to prior knowledge students have to empower them to make healthy choices that will lead to a high quality of life. Course topics may include but are not limited to the following: Healthy choices, systems of the body, Nutrition, Mental health, Stress Management, Social health, and Bones & Muscles.
Physical Education	Semester/Year	None	The purpose of High School Physical Education is to improve flexibility, strength, coordination, agility, endurance, and sportsmanship. This is accomplished by emphasizing the importance of stretching, form running, and basic core exercises. Some of the activities include: volleyball, touch football, soccer, eclipse ball, pickleball, lacrosse, badminton, basketball, floor hockey, and frisbee. Skills for each activity are developed by emphasizing fundamentals.
Strength & Conditioning	Semester/Year	None	The Focus of this class is to learn how to safely develop overall strength as it relates to health, safety, and athletic performance while experiencing the many benefits of lifting for physical, mental, and social health. Periodic tests/quizzes are rare, but may be given.

Science

Students will complete 30 credits of 3 separate science courses.
*Physical Science and Biology will be two of them. Students have a choice for the last 10 credits.

Science Classes	Length	Prerequisites	Description
Physical Science	Year	None	Physical Science is a course that will require students to put forth their best effort to grow in understanding. Previously learned information will be reviewed, but this course will introduce many new concepts to students. Physical science can be simply described as the study of non-living systems including topics of chemistry, physics and earth and space science. Students will study Newton's law of gravity and orbits, electromagnetism, energy, matter, chemistry, space systems, weather and climate, Earth's systems and Earth's history.
Biology	Year	None	This is an introductory course designed to introduce students to the basic concepts, laws, and theories that explain biological phenomena. Students will develop the ability to make meaningful observations, formulate higher-order thinking conclusions, and communicate scientific information through projects, written reports, and verbal inquiry. Concepts covered are: basic principles of biology, cells, cellular energetics, genetics and heredity, ecology and evolution.
Advanced Biology BIOS 1010 - SCC	Year	Biology grade must be a B or higher	This course covers fundamental processes of cells and organisms, cell structure, genetics, biotechnology, evolution, classification, diversity, and interaction of organisms at the molecular, cellular, organismic, ecosystems, and biosphere level. It is designed as a foundation course for those planning additional work in biology.
Anatomy BIOS 1140 - SCC	Year	Biology grade must be a C or higher	Students will be exposed to the fundamental gross and microscopic anatomy of the human body. Topics covered include the integumentary, skeletal, muscular, nervous, digestive, respiratory, cardiovascular, lymphoid, urinary, reproductive and endocrine systems. Models of the human body, dissected organs, and pigs are emphasized in the laboratory.

Chemistry	Year	Completion of Beginning Algebra	Chemistry is a course described as the study of matter, what it consists of, what its properties are and how it changes. Students will apply prior knowledge and dive deeper into the world of Chemistry. Students will study properties and states of matter, atomic theory, the periodic table, chemical bonding, the representation of chemical substances, equilibrium and reaction rate, solution chemistry, thermochemistry and thermodynamics, reduction reactions and electrochemistry and branches of chemistry around us in the world today.
CHEM 1090 - Dual Enrollment	Year	Intermediate Algebra or Appropriate College Level Math Score or higher	This is the first course of a comprehensive chemistry sequence. Topics include nomenclature, atomic structure, chemical reactions, essentials of bonding, periodic properties, Valence Shell Electron Pair Repulsion Theory (VSEPR), modern bonding theories, stoichiometry, thermochemistry, and the chemistry of solids, liquids, gases.
Physics	Year	Enrolled or completed PreCalculus	Physics is a course that will require students to put forth their best effort to grow in understanding. In order to have success, students must be willing to put in time and effort towards completing assignments and studying the material. Previously learned information will be reviewed, but this course will introduce many new concepts to students. Physics can be simply described as the study of matter in space and time and its motion. In other words, it describes why all different every day processes occur the way they do. Topics that will be covered range from force and energy to mass and charge. Students will study forces, motion, energy and momentum, electromagnetism, waves, heat and thermodynamics, properties of matter and chemical reactions.
Life Science	Year	Instructor/Counselor Permission	This is a practical biology course which covers the basic themes of life. This course covers: cells, genetics, evolution, ecology, plants, animals, viruses, and bacteria. Concepts are related to everyday life.

Earth and Space Science	Year	Instructor/Counselor Permission	Explores the interconnections between the land, ocean, atmosphere, and life of our planet. These include the cycles of water, carbon, rock, and other materials that continuously shape, influence, and sustain Earth and its inhabitants.

Social Sciences

45 credits are required for graduation. They are all prescheduled for students each grade level. There are options for electives in this department. They do not replace the prescheduled courses. Students can replace Dual Credit World History for World History

*indicates graduation requirements

Social Science Classes	**Length**	**Prerequisites**	**Description**
*Geography	Year	None	This course covers each region of the world. Each unit will discuss physical characteristics, human/environment interactions, people, culture, governments, and economics for each section. Students will analyze sources, infer meaning from political cartoons, explain events chronologically, and identify similarities and differences between experiences of diverse groups in history.
*World History	Year	None	This World History course will focus on developing your understanding of World History from approximately 8000 B.C.E. to the present. You will investigate the content of World History for significant events, individuals, developments, and processes in SIX historical periods, and develop and use the same thinking skills and methods employed by historians. You will be able to identify and analyze primary and secondary sources, make historical comparisons, and complete chronological reasoning and argumentation.
Dual Credit World History	Semester/Year	PreACT/MAP scores and grades in Geography and English will be evaluated 10^{th} grade or older	History 2100 World History to 1500: This course is a survey of the world's cultures and their interactions from the rise of civilization through the age of European expansion. Hist 2110 World History Since 1500: This course is a survey of the world's cultures from the era of European expansion to the present day.
*American History	Year	None	This course covers American History starting with Reconstruction through the Modern Era.

			Students will analyze sources, infer meaning from political cartoons, explain events chronologically, and identify similarities and differences between experiences of diverse groups in history.
Dual Credit American History	Semester/Year		History 2010 - A survey of American history from the Age of Discovery through the Civil War and Reconstruction. Emphasis is on the political, economic, cultural, social, and technological issues that arise in the development of the American nation. History 2020 - A survey of American history from the end of the Civil War era to the present. Emphasis is on the political, economic, cultural, social, and technological issues that arise in America's development as a global power.
*American Government	Year	None	This American Government course will consist of learning the fundamental beliefs and laws of the United States of America. Special emphasis will be placed on historic documents such as the Constitution and the evolution of the American system through Court decisions and other actions or events. Application of principles will be key throughout the course. Students will become knowledgeable in the processes of government, the law, and how they interact to shape your daily experiences. Students will become effective in the process of evaluating and choosing leaders who will best represent your values within the confines of the American system of government.
*Economics	Semester	None	A course covering economic concepts such as basic characteristics of the American economic system, how fundamental economic concepts operate, supply and demand, decision making and costs, consumer issues, and the principles that influence business decisions.

Psychology	Semester	10th grade or older	Students will learn the basic components of the study of Psychology. This will include involvement in experiments, case studies, research, and application of content knowledge in a number of ways.
Sociology	Semester	10th grade or older	Studies the patterns of human behavior and how people react in social situations. Covers how Cultures, Families, Gender, Age, Religion, and many other subjects impact human behavior.
Holocaust History	Semester	10th grade or older	One course – or even one lifetime- cannot cover all the aspects of the Holocaust and Genocide; this particular course is devoted to literature and film created by human beings both during and after these unspeakable conditions. This course focuses on literature (fiction, memoir, poetry, non-fiction) created by the victims of the Holocaust – written primarily by Jews, but by other victims also. Our readings and discussions will focus on human suffering, human cruelty, and often deliberately inflicted extreme cruelty, as revealed in what is often referred to as the literature of atrocity.
Modern Problems	Semester	10th grade or older	Students will explore modern issues they have an interest in learning about. Students will be taught methods for investigation and will participate in a variety of discussion techniques to provide opportunities for civil discourse.

Raymond Central Graduation Requirements Standard Diploma 240 Credits required for Graduation for Class of 2023 and younger		
Program	Course	Credits
Language Arts Exceptions: Life Skills Communications per IEP	English 9	10
	English 10	10
	English 11	10
	English 12	10
	+Optional to replace English 12 with SCC Comp and SCC Lit taught by our instructor	
	Personal Communications	5
	+Optional to replace Personal Communications with Competitive Speech per IEP	
		Total Credits 45
Social Studies *World History and American History can be taught as dual credit through SCC	Geography	10
	World History	10
	American History	10
	American Government	10
	Economics	5
		Total Credits 45
Math Students will continue on their Math track 30 credits of 3 separate math courses are required Algebra 1 is to be taken prior to General Math. Note: University of Nebraska System (UNL) requires 4 years of Math to be accepted. And must be Algebra 1, Geometry, Adv. Algebra and a year that builds on Adv. Alg. +Worth College Credit	Pre Algebra	10
	Algebra 1	10
	Geometry	10
	Advanced Algebra	10
	PreCalculus	10
	+SCC College Algebra	5
	+SCC Trigonometry	5
	+Statistics	5
	+Calculus	10
	Business Math	10
		Total Credits 30
Science Students will complete 30 credits of 3 separate science courses. *Physical Science and Biology will be two of them. Students have a choice for the last 10 credits. +Worth college credits	*Physical Science	10
	Life Science	10
	*Biology	10
	Earth and Space	10
	Chemistry	10
	Physics	10
	+Advanced Biology	10
	+Anatomy	10
		Total Credits 30

Physical Education/Health	*Health	5
	Physical Education and Fitness	5
	Strength and Conditioning	5
		Total Credits 10
Business/Technology Graduating Class of 2022 only needs 5 total credits. *Class of 2023 and younger needs 15 with IT Applications I being 5 credits	*IT Applications I	5
	IT Applications II	5
	Cybersecurity	5
	IT Fundamentals	5
	Networking	5
	Foundations of Web Design	5
	Digital Design	5
	Web Design and Development	5
	Computer Science Principles	10
	HS Career Development	5
	Introduction to Business	5
	Management & Leadership	5
	Business Law	5
	Accounting 1 & 2	10
	Accounting 3 & 4	10
	Agri-Business	5
		Total Credits 15
Family Consumer Science *Life and Career Readiness is a senior required course.	*Life and Career Readiness	5
	Fundamentals of Foods and Nutrition	5
	Culinary 1	5
	Culinary 2	5
	Baking and Pastry	5
	Child Development	5
	Early Childhood Educational Services	5
	Early Childhood Practicum	5 or 10
	Home Design and Interior	5
	Apparel Production and Construction	5
	Intro to Design	5
		Total Credits 5
Fine Arts Students are required to complete 10 credits for graduation. *2D and 3D are dual credit through Doane University	Band	5 or 10
	Choir	5 or 10
	Intro to Art	5
	Ceramics 1	5
	Ceramics 2	5
	Drawing 1	5
	Drawing 2	5
	Graphic Design 1	5
	Graphic Design 2	5

	Painting 1	5
	Painting 2	5
	Independent Study	5 or 10
	2D Design - college credit via Doane	5
	3D Design - college credit via Doane	5
	Drama	5
		Total Credits 10

Electives

50 credits total – 10 credits must be from Fine or Vocational Arts

Any additional course in a specific subject area outside of required credit hours are considered electives.

Foreign Language Most college will require 2 consecutive years of a foreign language for acceptance	Spanish 1	10
	Spanish 2	10
	Spanish 3	10
	Spanish 4	10
Agriculture Education Due to schedule rotations some classes will be offered every other year. *Counts as Business Credits	Introduction to AFNRO	5
	SMAW	5
	GMAW I	5
	OA	5
	Power Tech	5
	Plant Science	5
	*Agri-Business	5
	Fundamentals of Ag Marketing	5
	Crop and Food Science	5
	Livestock Production	5
	Animal Science	5
	Advance Animal Science	5
	Vet Science	5
	Companion Animals	5
Skilled Technical Sciences Due to scheduling courses are offered on a rotating basis.	Introduction to STS	5
	Advanced Industrial Technology - Woods	5
	Construction Trades 1 & 2	10
	Woods Manufacturing Process 1	5
	Woods Manufacturing Process 2	5
Social Sciences	Psychology	5
	Sociology	5
	Holocaust History	5
	Modern Problems	5
Language Arts	Creative Writing	5 or 10
	Journalism	5 or 10
	Reading	5
	SCC Public Speaking	5
	SCC Business Communications	5

Personal Learning Plan (PLP)Sample

All grade level required courses are prescheduled. Students use this format to choose their courses fulfilling graduation requirements.

Elective or E(#) indicates courses they can choose. These classes will first go to fulfill graduation requirements and then count towards elective requirements.

9th Grade	
Semester 1	Semester 2
English 9	English 9
Physical Science	Physical Science
Geography	Geography
Math: _____	Math:_____
Health	Elective 1:_____
E2:_____	E3:_____
E4:_____	E5:_____
E6:_____	E7:_____

10th Grade	
Semester 1	Semester 2
English 10	English 10
Biology	Biology
World History(DC option)	World History(DC option)
Math: _____	Math:_____
Personal Communications	Elective 1:_____
E2:_____	E3:_____
E4:_____	E5:_____
E6:_____	E7:_____

11th Grade	
Semester 1	Semester 2
English 11	English 11
Science:_____	Science:_____
American History	American History
Math: _____	Math:_____
Elective 1:_____	E2:_____
E3:_____	E4:_____
E5:_____	E6:_____
E7:_____	E8:_____

12th Grade	
Semester 1	Semester 2
English 12/SCC Comp	English 12/SCC Literature
Life and Career Readiness	Economics
American Government	American Government
Elective 1:_____	E2:_____
E3:_____	E4:_____
E5:_____	E6:_____
E7:_____	E8:_____
E9:_____	E10:_____