

Northeast Range School  
Grades 7-12  
**Course Registration Guide**  
2023-2024



---

Northeast Range School  
St. Louis County Public Schools  
ISD 2142

Dear Northeast Range Students:

Being in high school is an exciting time to identify hopes, dreams, and learn to explore opportunities. It provides a strong foundation to build skills for future plans. You have an opportunity through high school at Northeast Range School to choose a care/education path as a stepping stone to build skills and grow in your education for post secondary plans, both academic and/or the workforce.

This registration guide provides you an understanding of graduation requirements and courses offered at Northeast Range School. If you are interested in college credit and/or career technical education experiences, there are many opportunities to choose from.

If you have any questions after receiving this information, please feel free to contact Dr. Kjorsvig in the counseling office or office staff for support.

We look at the process of understanding and registering for your classes as a vital part of planning for your future. Please discuss the classes that are offered in our school with your family and communicate with your teachers as well for advice on classes. It may seem that graduation is a long way off, but in reality you are much closer than it may seem. I look forward to celebrating all your efforts and accomplishments as you succeed in school and graduate from Northeast Range School.

Sincerely,

Kelly Engman  
Northeast Range Principal

# Graduation Requirements

Students must meet all course credit requirements and graduation standards, as established by the state and the school board, in order to graduate from the St. Louis County Schools.

## Course Required

In order to receive a diploma, students must successfully complete at least 24 credits in grades 9-12 and comply with the following high school level course requirements:

High School Level Courses Required for Graduation		
Subject Area	Credits	Explanation
Language Arts	4	
Mathematics	3	Must include algebra, geometry, statistics and probability.
Science	3	Must include one credit of biology AND one credit in chemistry OR physics. 1 credit = 2 Sem (Year long course)
Social Studies	4	Must include United States history, geography, government and citizenship, world history, and economics.
Arts	1	
Physical Education	1	
Health	$\frac{1}{2}$	
Elective Courses	$7 \frac{1}{2}$	

## **Mathematics**

### **Pre-Algebra**

Grade Level: 7

Length of Course: 1 of 2, 2 of 2

Credit: .5

**Course Description:** With a strong focus on proportional reasoning, this course covers the benchmarks for the following strands from the Minnesota 7th grade Academic Standards in Mathematics: Numbers and Operations, Algebra, Geometry and Measurement, Data Analysis and Probability.

### **Algebra I**

Grade Level: 8

Length of Course: 1 of 2, 2 of 2

Credit: .5

**Course Description:** With a strong focus on linear algebra, this course covers the benchmarks for the following strands from the Minnesota 8th grade Academic Standards in Mathematics: Numbers and Operations, Algebra, Geometry and Measurement, Data Analysis and Probability.

### **Algebra II**

**Prerequisites:** Algebra 1 or Teacher Placement

Grade Level: 9-10

MCCC Code: 02056

Length of Course: 1 of 2, 2 of 2

Credit: .5

**Course Description:** This course is for students planning to go to college post high-school. Algebra II focuses on a variety of parent functions. It also covers the benchmarks for the Algebra strand from the Minnesota 9-11 grade Academic Standards in Mathematics.

### **Algebra Topics**

**Prerequisites:** Teacher Placement

Grade Level: 9-10

**Course Offered:** Alternating Years

Length of Course: 1 of 2, 2 of 2

Credit: .5 semester

**Course Description:** This course focuses on a variety of parent functions with a strong focus on linear functions. It also covers the benchmarks for the Algebra strand from the Minnesota 9-11 grade Academic Standards in Mathematics.

### **Probability/Statistics**

Prerequisites: Teacher Placement

Grade Level: 11

Length of Course: One semester

Credit: .5

**Course Description:** This course is for students planning to go to college post high-school. Probability is the study of random outcomes and applying probability concepts to solve real-world problems. Statistics is the study of data including collecting, displaying, analyzing, drawing conclusions, making predictions, and identifying trends to describe. This course covers the benchmarks needed to meet the Data Analysis and Probability strand from the Minnesota 9-11 grade Academic Standards in Mathematics.

### **Algebra III**

Grade Level: 11

Length of Course: one semester

Credit: .5

**Course Description:** Algebra III is a continuation of Algebra II including exponential and logarithmic functions, sequences and series, and matrices. This course will complete the algebra strand.

### **CIS Statistics**

**Prerequisites:** Meet college requirements for high school students or accepted

Grade Level: 11-12 (Elective)

Length of Course: One Semester

Credit: .5

**Course Description:** An introduction to statistics suitable for social and behavioral sciences, but also suitable for students in other disciplines. Topics include statistical theory and experimental design, descriptive statistics, probability models, regression, analysis and correlation, inference and sampling methods.

### **CIS Calculus**

**Prerequisites:** Meet college requirements for high school students

Exam or waived

Grade Level: 11-12 (Elective)

Length of Course: One Semester

Credit: .5

**Course Description:** A brief survey of calculus including some integration. Review of Real Numbers, Graphing functions, and inequalities, limits and continuity.

Differentiation techniques including chain rule and implicit differentiation. Applications of the derivative to maximum and minimum including cost, revenue and profit functions. The definite and indefinite integral with application to the physical, social and behavioral sciences. Logarithmic and exponential functions with applications of growth, decay, and populations.

## **English/Language Arts**

### **Language Arts 7**

Grade Level: 7 (Required)

Length of Course: semesters 1 of 2, 2 of 2

Credit: .5 per

**Course Description:** This course introduces students to basic language skills, including: grammar, usage and mechanics practice; literary topics, discussions, and examples; vocabulary and spelling instruction; and practice in writing and speaking. Students will be given an opportunity to demonstrate their knowledge of the material through classroom discussion, appropriate assignments, and oral and written testing.

### **Language Arts 8**

Grade Level: 8 (Required)

Length of Course: semesters 1 of 2, 2 of 2

Credit: .5 per

**Course Description:** This course expands the use of basic language skills found in Language Arts 7 including: grammar, usage and mechanics practice; literary topics, discussions, and examples; vocabulary and spelling instruction; and practice in writing and speaking. Students will be given an opportunity to demonstrate their knowledge of the material through classroom discussion, appropriate assignments, and oral and written testing.

### **Language Arts 9/10**

Grade Level: 9 (Required)

Length of Course: semester 1 of 2, 2 of 2

Credit: .5 per semester

**Course Description:** This course is a general language arts class which reviews the basic communication skills that play an essential role in our senior high electives. Literature, writing, reading comprehension, vocabulary, spelling, grammar, usage and mechanics are all included. Course objectives include all appropriate district outcomes relating to listening, speaking, reading, and writing. Verbal interaction, literary analysis, composition skills, personal response to literature, and an awareness of multicultural literature will be fostered.

This course will feature the study of world literature. It will include analysis of the structure of non-fiction, short stories, novels, drama and poetry. This course will also integrate writing, speaking, listening, and research.

### **Language Arts 11/12**

Grade Level: 11-12 (**Required**)

Length of Course: Semester 1 of 2, 2 of 2

Credit: .5 per

**Course Description:** This course will be a survey of American literature from pre-colonial America to modern times. The course will investigate all aspects of literature as well as presenting historical facts relative to the material. It will also integrate writing, speaking, listening, and research.

### **CIS Public Speaking**

**Prerequisite:** Minnesota North GPA requirements

Grade Level: 11-12 (**Elective**)

Length of Course: One Semester

Credit: .5

**Course Description:** Intro to Public Speaking introduces students to the principles of public speaking. Emphasis is placed on developing the skills needed to prepare and present speeches, including topic selection, speaker credibility, audience analysis, delivery, organization of support, and visual aids. Communication skills will be reinforced through presentation and evaluation of speeches. Students will give icebreaker speeches, a speech to inform, a persuasive speech, an impromptu speech, and a variety of practice presentations.

### **CIS Intro to Short Story**

**Prerequisite:** Minnesota North GPA requirements

Grade Level: 11-12 (**Elective**)

Length of Course: One Semester

Credit: .5

**Course Description:** Introduction to Short Story is a course designed for the college student who is beginning a serious study of fiction. Students will read and study fiction in terms of its elements as well as learn criteria for analyzing and judging works of literature. While the course stresses analysis, it also emphasizes the belief that literature is to be enjoyed; hence the readings are chosen in the hope that the stories will teach students about humanity, about their own lives, perceptions and feelings, and about the

shared patterns of human existence. In this way, then, the course may be the beginning of a lifelong understanding and joy in literature.

### **Journalism**

Course Code:

Grade Level: 9-12 (**Elective**)

Length of Course: Semesters 1 of 2, 2 of 2

Credit: .5

**Course Description:** Journalism is an elective course designed for students who are interested in pursuing careers in writing, publishing, or photo editing. Students will gain an understanding for the importance of working as a team, being part of a community, meeting publication deadlines, and possessing high ethical standards. This course focuses on journalistic writing and proofreading, interviewing, photo editing, page design and aesthetics, advertisement sales and designs, and digital publications. Students will design, publish, and sell our high school yearbook.

### **Film and Television Production**

Course Code:

Grade Level: 9-12 (**Elective**)

Length of Course: Semester

Credit: .5

**Course Description:** Students will learn the basics of film and television production using new and emerging technology. The production studio will be utilized as students use creativity to produce their own works!

## **Science**

### **Physical Science**

Grade Level: 7-8 (**Required**)

Length of Course: 1 of 2, 2 of 2

Credit: .5

**Course Description:** Physical Science is an introduction to the sciences of physics and chemistry. Physics is the study of the universal forces and their effects on matter. Chemistry is the study of the composition, properties, and interaction of matter. Students will be required to know laboratory procedures, collect and analyze data, and make scientific calculations involving introductory algebra.

### **STEAM: Science, Art & Engineering**

Grade Level: 7-8 (**Elective**)

Length of Course: 1 or 2 semesters

Credit: .25 per semester

**Course Description:** This introductory course incorporates information and aspects of science, technology, engineering, and math by engaging in a wide variety of hands on projects

### **Biology**

Grade Level: 9-12

**(Satisfies graduation requirement)**

Length of Course: 1 of 2, 2 of 2

Credit: .5

**Course Description:** Biology is designed to stimulate your interest and appreciation of the living things found in your environment. During this course you will study the structure and function of living things, interdependence of life, diversity of organisms, heredity, biological relationships, the flow of matter and energy, and human interaction. You will have an opportunity to apply current discoveries to your personal life as well as to the global environment. Labs play an important role in this course.

### **Applied Physics**

Grade Level: 11-12 **(required, or chemistry)**

Length of Course: 1 of 2, 2 of 2

Credit: .5 per semester

**Course Description:** Topics of Physics include mechanics, thermal energy, wave properties, and electromagnetic energy. Students will be able to safely perform experiments and use the scientific method to solve problems. They will learn to use mathematics as a tool of physics. Students will gain a greater understanding of their physical environment and how it affects them.

### **Forest Field Skills**

Grade Level: 11-12 **(elective)**

Length of Course: 1 of 2, 2 of 2

Credit: .5 per semester

**Course Description:** Introduces students to basic field techniques, measurements and terminology encountered in basic surveying/ orienteering and safe efficient use of field equipment is emphasized.

### **Advanced Robotics**

Grade Level: 11-12 **(elective)**

Length of Course: semester

Credit: .5 per semester

**Course Description:**

## **Social Studies**

### **Global Studies**

Grade Level: 7-8 **(Required)**

Length of Course: 1 of 2, 2 of 2

Credit: .5

**Course Description:** Students explore the regions of the world using geographic information from print and electronic sources. They analyze important trends in the modern world such as demographic change, shifting trade patterns, and intensified cultural interactions due to globalization. Students participate in civic discussion on contemporary issues, conduct historical inquiry and study events over the last half century that have shaped the contemporary world. They analyze connections between revolutions, independence movements and social transformations, and understand reasons for the creation of modern nation states. They learn that governments are based on different political philosophies and serve various purposes. By learning economic principles of trade and the factors that affect economic growth, students understand why there are different standards of living in countries around the world.

### **Citizenship and Government**

Grade Level: 9-10 **(Required)**

Length of Course: 1 of 2, 2 of 2

Credit: .5

**Course Description:** Students will understand, demonstrate, and evaluate the skills associated with civic values and the principles of democracy. They will understand and be able to express the rights and responsibilities of United States Citizens, as well as to understand our governmental institutions and political processes in a manner that will ultimately enable them to effectively participate in elections. Finally, students will develop the skills necessary to understand the relationships of the U.S. to other nations and organizations.

### **United States History**

Grade Level: 11-12 **(Required) offered every other year**

Length of Course: 1 of 2, 2 of 2

Credit: .5

**Course Description:** The study of U.S. History helps students understand the democratic traditions of the United States, how these traditions were established, and how they continue in the present. U.S. History also helps students understand that the United States is a nation built by ordinary and extraordinary individuals united in an on-going

quest for liberty, freedom, justice, and opportunity. It helps students understand how much courage and sacrifice it has taken to win and keep liberty and justice.

### **Criminology/Current Events**

Grade Level: **9-12 (Elective)**

Length of Course: 1 of 2, 2 of 2

Credit: .5

**Course Description:** This course will focus on criminal law, the criminal justice system and its processes, the roles played by individuals in the system and the fundamentals of crime scene investigation and processing.

In addition to examining current events, students will explore a variety of political, cultural, social, and economic subjects facing the nation and the world. Special attention will be given to issues that affect NE Minnesota. Topics may include, but are not limited to: the environment, recreational activities, industries such as tourism, mining, and forestry, health care, legislative decision making, career options, education, immigration, trade, poverty, minorities, crime, and drugs.

### **CIS American History I**

**Prerequisite:** Minnesota North GPA Requirement

Grade Level: 11-12 **(Elective) offered every other year**

Length of Course: One Semester

Credit: .5

**Course description** per facilitating college

### **CIS American History II**

**Prerequisite:** Minnesota North GPA Requirement

Grade Level: 11-12 **(Elective) offered every other year**

Length of Course: One Semester

Credit: .5

**Course description** per facilitating college

### **CIS Psychology** (online)

**Prerequisite:** Minnesota North GPA Requirement

Grade Level: 11-12 **(Elective) offered every other year**

Length of Course: 1 of 2, 2 of 2

Credit: .5

**Course description** per facilitating college

## **Art**

### **Art 7/8**

Course Code: 7075, 7076

Grade Level: 7-8

Length of Course: Semester 1 of 2, 2 of 2

Credit: .25

**Course Description:** Introductory art course exploring the elements and principles of design through a variety of art media and materials. Project based work will reflect personal, social, historical and cultural context.

### **2D Visual Art: Drawing and Painting**

Grade Level: 9-12 (Elective)

Length of Course: Semester 1 of 2, 2 of 2

Credit: .5

**Course Description:** Basic introductory course in drawing and painting. Development of visual art content, concepts, and skills. Emphasis on visual communication and production incorporating elements and principles of design. Project based work will reflect personal, social, historical and cultural context. Self-reflection and evaluation of art process and product.

Exploration of graphic arts media, tools, and techniques (may include) – graphite, charcoal, colored pencil, marker, ink, scratch art board, pastel, oil pastel, watercolor, acrylic, mixed media, collage.

### **3D Art: Sculpture**

Grade Level: 9-12 (Elective)

Length of Course: Semester 1 of 2, 2 of 2

Credit: .5

**Course Description:** Basic introductory course in sculpture. Development of visual art content, concepts, and skills. Emphasis on visual communication and production incorporating elements and principles of design.

## **Health/Physical Education**

### **Health 7-8**

Grade Level: 7/8

Length of Course: One Semester

Credit: .5

**Course Description:** The topics covered in this class are: mental and social health, getting along with family, accidents -- prevention and emergency, the human body – all the systems, first aid, disease, drugs, senses, pollution, exercise and conditioning, nutrition and AIDS.

### **Health 9-12**

Grade level: 9-12 **(Required)**

Length of Course: One Semester

Credit: .5

**Course Description:** The course will include Infectious Diseases (STDs, AIDS, etc.): Noninfectious diseases (Cardiovascular, Cancer, others): Selecting proper health care: First Aid Unit: public Health (preventing diseases, environmental health): and Family life (dating, marriage, reproduction and heredity, beginning of life, prenatal care, family crisis.

### **Physical Education 7-8**

Grade Level: 7-8

Length of Course: One Semester

Credit: .5 per

**Course Description:** Provide knowledge, experience, and opportunity to develop skills in various sports and activities.

### **Weightlifting**

Grade Level: 9-12

Length of Course: One Semester

Credit: .5 per

**Course Description:** Provide knowledge, experience, and opportunity to develop skills in various sports and activities.

**Life Sports**

Course Code: 5501, 5502

Grade Level: 11-12 (Elective)

Length of Course: Semester 1 of 2, 2 of 2

Credit: .5

**Course Description:** Units covered include team sports (flag football, volleyball, soccer, softball, floor hockey, basketball), and individual sports (badminton, golf, bocci ball, power-walking, jogging), and physical fitness.

**Industrial Arts****Industrial Arts 7-8**

Grade Level: 7-8

Length of Course: One Semester

Credit: .5

**Course Description:** Introduction to Industrial Arts with an emphasis on woodworking with some exploration of drafting and metals. Students will build required projects and then design/select a project of their own choice. Industrial safety will also be introduced and strongly emphasized.

**Non-Metal Manufacturing**

Grade Level: 9-12 (Elective)

Length of Course: One Semester

Credit: .5

**Course Description:** This course focuses on manufacturing with materials. Students will learn safety in the shop and gain a basic understanding of different non-metal products used in manufacturing.

**Advanced Welding I/II**

Grade Level: 10-12

Prerequisites: Basic Welding or Instructor Recommendation

Length of course: Semester

Credit: 1 (.5 per semester)

**Course Description:** This course focuses on different welding techniques and additional metal fabrication. Students should exit class with an increased understanding of shop safety, different welding and cutting techniques, terminology, and ability to plan and

manage a project. The goal is for students to exit with the ability to safely operate different types of equipment in a welding environment.

### **Emerging Technologies**

Grade Level: 9-12 (Elective)

Length of Course: One Semester

Credit: .5

**Course Description:** This course focuses experiences with newer technologies and their applications. Students gain knowledge and experiences using various tools, as well as safety and maintenance information. Students should expect to work with computers to design and create physical objects.

### **Product Development**

Grade Level: 9-12 (Elective)

Length of Course: One Semester

Credit: .5

**Course Description:** This course follows emerging technologies, allowing students to target a specific product and the use of emerging and other technologies. Students pick a project and develop a solution.

## **Music**

### **Band**

Grade Level: 7-12 (Elective)

Length of Course: 1 of 2, 2 of 2

Credit: .5 or 1

**Course Description:** Band is a performance-oriented organization that explores various instrumental musical styles. Students will continue to develop their musical skills. Students will be encouraged to participate in various ensembles and settings. Opportunities are provided for solo, small ensembles, and large group performances such as concert, festival, contest, and pep band.  
*Students in grades 7-8 will also participate in band lessons.*

## **World Languages**

### **Spanish I**

Grade level: 9-12 (**Elective Telepresence**)

Length of course: 1 of 2, 2 of 2

Credit: .5

**Course Description:** This course welcomes the student to the world of the Spanish language and Spanish speakers. Through real situations and meaningful language, students explore the basic elements of the Spanish language. A variety of activities ranging from communicative pair activities to role playing will encourage students to participate and experience first hand the excitement of another language. Topics include greetings, countries and nationalities, describing people, telling time, favorite pastimes, weather, families, careers, and practicing present tense verbs through dramatizations, writing and listening activities. Cultural presentations allow students to better understand the Spanish- speaking world.

### **Anishinabe I**

Grade level: 9-12 (**Elective online**)

Length of course: semester

Credit: .5

**Course Description:** Boozhoo! This course offers the students an introduction to the Anishinabe language. Through a variety of activities students will develop a basic vocabulary which will include numbers, colors, objects, greetings etc. and the beginning of sentence construction cultural presentations will allow students to better understand the Anishinabe people.

### **Anishinabe II**

Grade level: 9-12 (**Elective online**)

Length of course: semester

Credit: .5

**Course Description:** A continuation of the Anishinabe language I. This course will provide students with the continued practice of speaking, listening and writing in Anishinabe. Students are now given more opportunities to speak and show what they have learned.

## ***Supportive Electives***

### **Youth Service**

Grade Level: 9-12

Length of Course: 1 of 2, 2 of 2

Credit: .5

**Course Description:** Service credit learning through opportunities to grow as a learning through active participation in school. This participation would include helping the school system, other students, and educators with the education process. Students are assigned an adult to mentor and supervise this learning experience.

### **REACH**

Grade Level: 9-12

Length of Course: 1 of 2, 2 of 2- Elective

Credit: .5

**Course Description:** The purpose of this elective class is to serve all students who need support helping them attain their places in life through academic and interpersonal success. The course is designed to work on social skills and building healthy relationships with others. Continuing to help students grow their skills to become a more successful person and student.

### **Real Life Encounters**

Grade Level: 9-12 (Elective)

Length of Course: 1 of 2, 2 of 2

Credit: .5

**Course Description:** This course will cover the areas of: Basic Automotives, including changing tires, oils, spark plugs, filters, jump starting a car, grease jobs, and even filling out loan papers for a car; Basic Home Repairs, including electrical, plumbing, copper and plastic repair, insulation, window repair, sheetrock repair, and other interior and exterior repair; Basic Cooking Skills, such as nutrition, building deck gardens, window box gardens, making meals, preserving food, and comparing fast food to home cooked meals. Other topics may include but are not limited to: career exploration, listening skills, time management, job applications, apartment leases, etc.

## **COLLEGE IN THE SCHOOLS (CIS)**

CIS stands for College in the Schools. CIS allows juniors and seniors an educational program that offers high school students the opportunity to receive college credit through high school coursework. Northeast Range partners with the following colleges: Fond du Lac Tribal and Community College (FDLTCC) and Minnesota North Colleges.

### **CONCURRENT ENROLLMENT PROGRAM (CEP/CIS)** **REQUIREMENTS**

1. Junior year Cumulative GPA Requirement 3.0
2. Senior Year Cumulative GPA Requirement 2.6
3. Some Courses require prerequisite course and higher cumulative GPA

### **COMMITMENT AGREEMENT** **CONCURRENT ENROLLMENT PROGRAM (CIS)** **COURSE EXPECTATIONS**

Students who elect to take an CIS and/or college level course should exhibit the following qualities and be aware of the following commitments required to complete the course:

1. Evidence of strength in skills relevant to the content area.
2. Commitment to assume personal responsibility for independent and long-term assignments.
3. Commitment to be challenged and to accept the rigorous standards and expectations of the course.

#### **Course Expectations**

As with all courses receiving credit, CIS courses will provide activities that meet state standards. In addition, course activities and assignments will address the following guidelines:

1. Although students will be expected to do more work in terms of homework and concepts covered, the major emphasis will be placed on high-level and rigorous activities, assignments, performance, and assessment.
2. Reading, writing, speaking, listening, and thinking activities will emphasize upper levels of comprehension.
3. Activities will strive for both breadth and depth of learning.
4. All written and oral communication activities will require higher critical thinking/reasoning skills; exhibit linguistic sophistication, and neatness in presentation.

5. The textbook will be supported and enriched through additional related materials and activities.
6. Although short-term assignments may characterize the day-to-day activities of the course, these will be enriched through long-term assignments.
7. Major assessment, such as projects and tests, will require application of concepts as well as recall of information acquired.

**When a student registers for any CIS or college level coursework, they are agreeing and committing to the following statement:**

**"I understand the student expectations as stated above and agree to make a year long commitment to the course for which I am registering."**

### **CREDIT RECOVERY**

Credit recovery is offered at Northeast Range for students who are sixteen years or older and need to make up a credit for a core subject class they failed in grades 9-12 in order to graduate. Credit recovery is done after school which allows students some flexibility in regaining needed credit to graduate. Credit recovery is designated as an opportunity to make up credit for failed courses and can not be substituted as a required course on a student's regular schedule.