

Le Roy-Ostrander Registration Guide



2020-2021

LEROY-OSTRANDER REGISTRATION GUIDE

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As part of the registration process, students will have to consider which classes to select to earn a minimum of 24 credits for a L-O diploma. In addition to the required studies, there are many electives to choose from. A full schedule is encouraged. Required classes include:

English – 4 years

Including Senior Project - .5 credit

Mathematics – 4 years

Computer Applications – .5 credit

Physical Education – 1 credit

Social Studies – 4 years

Science – 3 years

Including 1 credit of Chemistry or Physics

Health - .5 credit

Art (Visual, Music, or Media Arts) – 1 credit

EDUCATIONAL REQUIREMENTS BEYOND HIGH SCHOOL

It is important for students to register for high school classes that will satisfy the entrance requirements for potential institutions. These requirements can vary between various institutions and between programs within the same institution. It is the responsibility of the student to become familiar with the entrance requirements of potential institutions to which they wish to apply.

Students are also strongly encouraged to arrange a campus visit to those institutions that they may be considering. Admissions factors considered by post-secondary institutions may include: class rank, grade point average, high school course selection, entrance exam scores (ACT), participation and leadership in school and community activities, a personal essay and teacher recommendations.

In general, students may adhere to these guidelines for admission:

MINNESOTA STATE COLLEGES AND UNIVERSITIES ADMISSION REQUIREMENTS

2-year state college requirements

The two-year state community and technical colleges have an open admissions policy. This means:

- You can enroll if you have a high school diploma or a GED. Even without those, you may be admitted if you demonstrate potential for success in college.
- No standardized tests are required for admission to the two-year state colleges, and your high school grades and class rank are considered.
- After you have been admitted, you will be required to take a test for placement in the appropriate courses based on your reading, writing and mathematics skills.
- You are more likely to do well on the placement test if you complete a "college prep" curriculum in high school, including four years of English and three years of mathematics, science and social studies. If you did not, or if you had minimum passing scores on the Minnesota Basic Standards test, you may not be admitted to certain programs. Most likely, you will have to take developmental or remedial courses that will not count toward a degree before you can take college-level courses.

4-year state university requirements

The seven state universities generally will accept you if you can answer yes to at least one of these questions:

- Did you graduate in the top half of your high school class?
- Did you score 21 or higher on the ACT standardized test?

Admission to some of the seven state universities may require meeting slightly different requirements. Check with the university admissions office for details. Even if you don't meet minimum requirements, you may be considered for admission under special provisions.

Apply early in 12th grade for the best chance at being admitted. Some universities and programs do not have room for all qualified applicants. For admission to a state university, you also should have completed these courses in high school:

- Four years of English, including composition and literature
- Three years of math, including two years of algebra, one of which is intermediate or advanced algebra, and one year of geometry
- Three years of science, including one year each of a biological and a physical science with laboratory experience
- Three years of social studies, including one year each of U.S. history and geography
- Two years of a single world language, including non-English native languages and American Sign Language
- One year of visual and performing arts

MINNESOTA PRIVATE COLLEGE ADMISSIONS REQUIREMENTS

The admission requirements for private colleges vary greatly. Students are strongly encouraged to contact prospective schools for admission information. The general guidelines for the University of Minnesota or State Universities may be followed but these are generally minimum requirements. Several private colleges require three years of a foreign language.

MINNESOTA PRIVATE CAREER SCHOOL REQUIREMENTS

These schools offer programs in business, technology, cosmetology, art, music and nursing. Again, students should contact prospective schools for admission requirements.

MILITARY SERVICE

All military branches now require a high school diploma for entrance. Students interested in the military are encouraged to visit with a military recruiter or guidance counselor for information.

Also, if you plan to participate in athletics in either a Division I or Division II college, NCAA has certain guidelines. They require 14 Core Courses which include: 4 years of English; 2 years of Math (Algebra I or higher); 2 years of natural/physical science (1 year of lab); 1 year of additional English, Math, or Science; 2 years of Social Science; and 3 years of additional courses (from any area above or foreign language). At the end of your Junior year or the beginning of your Senior year is a good time to register to the NCAA Clearinghouse to make sure you will qualify for college athletics.

Name _____

Class of _____

CREDIT INVENTORY 24 CREDITS REQUIRED FOR GRADUATION

COURSES	CREDIT	9 th	10 th	11 th	12 th	Completed	
English 9 Semester 1	.5						
English 9 Semester 2	.5						
English 10 Semester 1	.5						
English 10 Semester 2	.5						
Speech/Communications Semester 1	.5						
American Literature Semester 2	.5						
English 12 Semester 1	.5						
English 12 (Senior Project) Semester 2	.5						
Civics/U.S. History Semester 1	.5						
Civics/U.S. History Semester 2	.5						
Amer. Hist./World Geog. Semester 1	.5						
Amer. Hist./World Geog. Semester 2	.5						
World History Semester 1	.5						
World History Semester 2	.5						
American Government/Law (Sem. 1)	.5						
Economics (Semester 2)	.5						
Algebra II Semester 1	.5						
Algebra II Semester 2	.5						
Geometry Semester 1	.5						
Geometry Semester 2	.5						
Personal Finance Semester 1	.5						
Stats & Probability Semester 2	.5						
Advanced Math OR Applied Math	.5						
Advanced Math OR Applied Math	.5						
Physical Science Semester 1	.5						
Physical Science Semester 2	.5						
Biology Semester 1	.5						
Biology Semester 2	.5						
Science Semester 1 (Chem. or Physics)	.5						
Science Semester 2 (Chem. or Physics)	.5						
Art (Visual Arts, Music or Media Arts)	.5						
Art (Visual Arts, Music or Media Arts)	.5						
Physical Education 9	.5						
Physical Education 10	.5						
Health 10	.5						
Computer Technology	.5						
Total Elective Credits	6						
Cumulative Earned Credits to Date							

Elective Classes Taken



AGRICULTURE EDUCATION

FFA, Pizza & You

9th Grade

This is a freshmen entry-level course. Students will learn historical components of the FFA and career success opportunities related to the FFA. Basic leadership skills, parliamentary procedure and conduct are also addressed. In addition, students will also learn about the food science sector of the agriculture industry how it influences our lives from day to day.

Horticulture (10th-12th Grades) – Fall Semester Class

**9th-12th Grades
1st Semester**

Horticulture studies include careers, plant identification, plant care and reproduction of plants. Vegetable crops, fruit crops, gardening, greenhouse management and holiday/specialty design are other topics considered. Hands-on projects in class include plant propagation, media type comparisons, leaf casts, terrariums, beta fish creations, crafts and floral design just to name a few.

☆Course counts for science credit☆

****\$30 lab fee will be required by all students for labs/projects conducted and taken home.*

Greenhouse Management & Landscaping

**9th-12th Grades
2nd Semester**

This course deals with proper landscaping techniques and hands-on activities associated with running a greenhouse. Students will learn the basics of greenhouse operation and landscaping care/installation. Topics to be covered are: design and construction of a greenhouse, greenhouse environments, plant propagation, producing sale plants, plant marketing, record keeping, hydroponics, pest control, tree and shrub ID, flower bed plantings, house landscape projects.

Prerequisite: Horticulture – must earn a B or better

Animal Science

**10th-12th Grades
1st Semester**

Phenotypic make-up, care and management of livestock animals will be emphasized. Management tools, gender terms and general livestock industry knowledge strongly stressed. Class will involve hands-on in various procedures done on animals (i.e. dissection, castration, dehorning).

☆Course counts for science credit☆

Pre-Vet Science (11th-12th Grades) = 2nd semester only!

**11th-12th Grades
2nd Semester**

Physiological focus on livestock animals/companion animals. Reproduction, genetics, digestion and nutrition will be the focus. Students will be completing a Vet-Ride-Along with area vet clinics as a portion of their learning. There will be a high amount of dissection and lab work (i.e. reproductive tracts, udders, digestive tracts, suturing, types of injections, etc.)

Prerequisite: Animal Science – Must earn a B or better

****May be also taught over ITV at same time as class teaching is occurring.**

☆Course counts for science credit☆

Agriculture Mechanics I**10th -12th Grades
1st Semester**

Topics will include but are not limited to: Machinery safety, masonry and introduction to welding. Shop-related hands-on projects will be a portion of this course.

*****\$30 lab fee will be required by all students for labs/projects conducted and taken home.**

Agricultural Mechanics II**10th -12th Grades
2nd Semester**

Topics will include but not limited to: building construction, structures, electricity, plumbing, machinery horsepower, small engines, and advanced welding techniques. Students will be required to construct various projects related to instruction. Other advanced projects will be determined by class and instructor together.

Prerequisite: Agricultural Mechanics I with a grade of a B or better

*****\$30 lab fee will be required by all students for labs/projects conducted and taken home, if not paid in Ag Mechanics I course.**

Leadership 101**10th-12th Grades
1st semester**

An extraordinary and hands-on course that challenges you to take initiative, influence others, and develop your leadership skills. Find the natural leader you are meant to be. Through a “hands- on” approach you will develop the leadership skills needed to find, be hired for, and advance in a job. Written communication, verbal communication, stress management, meeting procedures, goal setting, team building, and career development skills are some of the skills you will learn.

Leadership characteristics and skills are examined through case scenarios. Communication and public speaking skills are re-perfected through discussions and speeches presented in class related to agriculture. Advanced Parliamentary Procedure will also be a component of course. This is a great course for all officers and leaders in the various LOHS organizations and classes.

Independent Study in Agriculture**11th -12th Grades
(1 per semester)**

STUDENTS MUST BE PRE-APPROVED BY INSTRUCTOR BEFORE SIGNING UP FOR COURSE.

Course is designed for students interested in a career in agriculture. Completing SAE (Supervised Agricultural Experience) applications will be an extensive part of one's grade. Topics can include, but are not limited to research papers, greenhouse projects, career building skills, floral works, advanced landscaping, small animal care, aquaculture, computers/Internet, FFA and elementary awareness programs. Students are required to maintain a 3-ring binder portfolio to highlight key points and projects of their independent study. Students will be taking course while Ag Instructor is teaching main class – thus pace of study is independently determined.



7 ART

Yearbook

FULL YEAR COURSE

STUDENTS MUST BE PRE-APPROVED BY INSTRUCTOR BEFORE SIGNING UP FOR COURSE.

This class develops art skills to create and assemble the 2020/21 yearbook. Students will use to elements and principles of art & design and consider 2-D images as well as entering all pages to create the yearbook. Taking pictures at school events will be important as well as an ability to work independently, take direction, use the computer effectively and work with other students as part of a team.

Printmaking

Fall semester

Artists create multiples of images through a variety of techniques. Learn about the history of printmaking while exploring methods of creating prints; collagraphs, block printing, intaglio, and monotype to name a few. This will be a fun class, with a lot of success, since printing is a great way to put ideas and information into a visual image. The elements and principles of art & design will be reinforced through projects and experimentation.

Drawing & Painting

Fall Semester

This course will focus on developing basic drawing skills using a wide variety of materials. Several drawing techniques will be used and will lead into basic painting materials, acrylic, watercolor and tempera. You can improve your drawing skills and this class will show you how!

Ceramics

Spring semester

Explore the use of clay and it's 3-D applications in art, while creating slab, coil, sculpture and wheel work. Understand about the historical context of clay work and current artist work, while learning about glazes and firing. The elements and principles of art & design will be reinforced through projects and experimentation. Be prepared to get messy!

Illustration

Spring semester

Illustration is such a part of our daily existence that we aren't always aware of it. In this class you'll use a variety of materials to create illustrations for movies, books, ideas and more. You'll draw, paint, create and illustrate ideas, often of your own choosing. While this class does have drawing as part of it, it isn't only drawing, you'll be limited only by your imagination! The elements and principles of art & design will be reinforced through projects and experimentation.

Drawing Manga

Spring semester

Manga has become a worldwide phenomenon, and this is a chance to practice and improve on your drawing Manga skills. While we will look at anime for reference, this class will focus on character development and various ways to draw your manga characters in a graphic novel format. Whether you are new to manga, or have been drawing your budding characters for years, this class will help you take this form of drawing to a new level.

COMPUTER/TECHNOLOGY



Ind. Microsoft Office Suites

1st OR 2nd Semester Course
9th – 12th grades (Flex Schedule)

Students will learn the office suites of Word, Excel, Power Point, & Access through several teacher led projects. You will learn many shortcuts and additional features that Microsoft Office 2010 has.

****OPTIONAL INDEPENDENT STUDY WITH APPROVAL OF INSTRUCTOR***



ENGLISH

Survey of English 9

Required

This course allows students to develop a broad-based knowledge of literature and the English language. Students will further develop in their abilities to comprehend and evaluate various types of literature through an assortment of reading, writing, and vocabulary activities. Students taking this course will also review the fundamentals of the English language, as well as be introduced to higher levels of grammar, usage and mechanics.

Grade 9

Full Year Course

English 10

Required

The class is designed to prepare sophomores for the state mandated MCA Reading Tests and the world of academic writing. Students will explore the writing process by taking their ideas from prewriting to publication. They will learn to write with purpose and creativity. Students will be exposed to fiction, nonfiction and poetry as a means to heighten their analytic and comprehension skills. Weekly vocabulary lessons will enrich the students reading, writing and speaking experiences.

Grade 10

Full Year Course

English 12 - The Research Process

Required

The students will study a series of novels that address social and racial issues and expose the reader to the elements of Literature. This course will also take seniors through process of writing a research paper. The curriculum will the writing of an effective thesis and proposal for a research paper that will be written in Modern Language Association (MLA) format. The process includes conducting a search of credible sources from a research database and websites of substance. The students will learn how to read through nonfiction pieces and evaluate those sources for validity regarding their thesis. Finally, a paper will be written, following the MLA format which will fulfill the requirements of senior paper. If a senior is not taking a college credit class (Library Writing Skills), this course is required by students.

Grade 12

1st Semester Course

Speech/Communications**Required**

This course focuses on the communication process and how it is used for both personal and public speaking. Course work will require the student to give a series of formal and informal speeches. Students will study communication skills that will prepare them for the work force or post-high school education. (As this class will be offered every year, juniors may choose to take this class during their senior year)

Grade 11 -12**1st Semester Course****Drama and Theater****Elective**

This class is offered as an elective option for Speech/Communication. This semester-long class is designed for students with little or no theatre experience with a goal to promote enjoyment and appreciation for all aspects of theatre. Classwork focuses on the exploration of theatre literature, performance, historical and cultural connections, and technical requirements. Improvisation, creative dramatics, and beginning scene work are used to introduce students to acting and character development. The class provides opportunities for students to develop skills in critical listening and thinking, as well as stage presence, the ability to connect the literature being studied to a variety of cultures, history, and other content areas. During the second quarter of the play, the students will choose and fully produce a short play for an elementary audience. Participation in an after-hours presentation of the play is a REQUIREMENT for this class.

Grade 10-12**1st Semester Course****American Literature****Required**

This course offers students the chance to explore early American Literature, beginning with the Native American oral tradition and moving through the present period. As we parallel American history, the focus of this study is on the writer/speaker as an historical, social, and cultural voice. Students taking this course will develop the ability to interpret and analyze a selected work of early American literature in order to determine author intent and to study the elements and structure of literature as an art form through written interpretations.

Grade 11-12**2nd Semester Course****(Contemporary) American Novel**

will count as an English/American Lit. Credit

This semester-long course uses the idea of “bestsellers” in contemporary literature as a focus for questions to ask while developing reading and writing skills. The study will engage students in discussion regarding the plot, characterization and conflict present in a series of currently published novels. Writing assignments and discussions will be used to communicate the literary elements authors use to describe the issues facing the world today.

Grade 11-12**2nd Semester Course**



MATHEMATICS

Algebra II **Required**

Grade 9
Full Year Course

Algebra II is an extension of Algebra I. More advanced topics are covered including some basic trigonometry and statistics. The course again involves many real work problems which help to link the algebra with the students' daily lives.

Geometry **Required**

Grade 10
Full Year Course

Geometry is intended to provide students with an awareness of the geometric ideas that they will encounter in their lives. They will develop skills in both inductive and deductive reasoning. The use of hands on activities, such as graphing, constructions, paper folding, and many more ideas are used to develop these skills.

Advanced Math **Required OR Applied Math**

Grade 11 -12
Full Year Course

Advanced Math brings all previous mathematics courses together and then extends each area further. Students will be collecting data and organizing it into charts, tables and graphs. They will present information in an organized fashion and draw conclusions from this information. The course also spends a great deal of time investigating trigonometry and its practical cases.

Outcomes:

1. Students will develop abilities to understand and communicate math ideas effectively.
 2. They will develop quantitative reasoning and problem-solving skills.
 3. They will learn how technology can be used as a tool to facilitate learning and doing mathematics.
-

Probability/Statistics **Required**

Grade 11
2nd Semester Course

In the probability portion of this class, students deal with uncertainty. They will explore the probability of a single event or two events occurring together. Students will use the binomial probability theorem to approximate the multiple occurrences of an event on repeated trials. The class will also explore the probability of winning the lottery and other such games. The statistics portion deals with measures of central tendency and measures of dispersion. The course explores various ways of graphing data and using samples to predict outcomes.

Personal Finance **Required**

Grade 11
1st Semester Course

Who Wants to Be a Millionaire? This course covers topics such as wages, renting or purchasing a home, buying and leasing vehicles, investing, credit cards, insurance, taxes, etc. This class will help plan and prepare for your future instead of just scraping by.

Trigonometry
(Elective)

Grade 11 – 12
2nd Semester Course

Trig explore the ideas of right triangle trigonometry, deal with degrees, radians, and conversions between the two half angle and double angle formulas and see how trig applies to the real world.

Applied Math
Required OR Advanced Math

Grade 11-12
Full Year Course

Applied Math use ideas from geometry, algebra, and trig to explore real-world situations. Most of the projects will be hands-on with many out of the classroom activities.

MUSIC



Senior High Band

Grade 9-12
Full Year Course

Senior High Band is an extension of Junior High Band. Students will achieve skills in music appreciation, musical knowledge, self-expression, and the enjoyment of sharing music with other people. The student is expected to increase in performance ability in order to play more demanding music. The band has required performances at sporting events, three concerts, the Homecoming parade, Memorial Day, and graduation ceremonies.

Senior High Choir

Grade 9 -12
Full Year Course

Choir members will apply musical knowledge and skills as they learn music to perform at three concerts, contest, and graduation. There are opportunities to perform at solo and ensemble contests and vocal festivals and there is an annual trip to see a musical.

PHYSICAL EDUCATION AND HEALTH



Grade 9
2nd Semester Course

Students in this course will have fitness tests measuring speed, strength, agility, and fitness level. Activities include individual and team sports, swimming, and recreational activities such as bowling, badminton, and supervised use of the Shooting Star Trail.

Physical Education 10

Grade 10
1st Semester Course

This course helps to improve skills and fitness through various activities. An assessment of fitness levels will be given in the fall and later winter. Students demonstrate knowledge of rules, skills and strategies of team and individual sports. Special emphasis will be on students designing their own fitness program.

Health 10

Grade 10
2nd Semester Course

This course builds on *Personal Health* standard addressed in eighth grade. There is an emphasis on health problems facing society such as health and wellness, responsible decision making, mental and emotional health, stress management, drug use, violence prevention, HIV infections and Aids, first aid, and CPR. A presentation on a selected health topic is required.

Lifetime Fitness:

Grade 11-12
2nd Semester Course

The student learner will research and develop an individual fitness routine to guide them throughout the Semester. Students who also participate in education-based athletics, will have the option of creating a plan for both their practice days as well as their game days, and all students will have the flexibility to create their plan for multiple days to prevent muscle fatigue and boredom. If the schedule allows, we will travel to Rochester to visit with the Mayo Clinic Sports Medicine trainers and their departments to further discuss training, nutrition, and other benefits. Prior to registering for the class, the student must get permission from the instructor to enroll in Lifetime Fitness. This will be a Pass/Fail course.

SCIENCE

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Physical Science **Required**

Grade 9
Full Year Course

This class covers basic concepts in physics and chemistry. Scientific investigation of mechanical motion, energy, and transportation will be learned as well as atomic structure, chemical bonds, and chemical reactions. Properties of electricity, magnetism, and light will be examined.

Biology **Required**

Grade 10
Full Year Course

Biology will investigate processes needed to maintain life and the systems and organs that work together to make life possible. General biochemical and cell processes will be discussed and examined in laboratory simulations. Major topics include the human body, ecological relationships, forms and functions in living things, biochemical processes, genetic principles, and evolutionary change.

Chemistry

Grade 11-12
Full Year Course

**SOCIAL STUDIES****American History: 1860 to Present**
Required**Grade 9**
Full Year Course

Continuing the process begun in eighth grade, American history will bring those themes to the present day. Students will be introduced to the political, economic, and social challenges that have brought us to our present position.

World Geography
Required**Grade 10**
Full Year Course

In this course students will learn about seven regions of the world. In each regional unit, students will learn about the region's geography, history, traditions, economics, daily life, literature, and arts. In addition, the role the region plays in the world today will be examined and discussed.

World History
Required**Grade 11**
Full Year Course

Students will explore significant events that have shaped human development. Political and social ideas, which have had the most impact on the modern world will be given special emphasis. Major areas of focus will include ancient Greece, Rome, Medieval Europe, Reformation Europe, Far Eastern Cultures, World Wars and the War on Terrorism. World Religions are also surveyed.

Intro to Psychology**Grade 10 – 12**
1st Semester Course

Psychology: The scientific study of behavior of living of living things. In this one semester course, the students explore topics related to human behavior, learning, memory, emotion, and personality. By the end of the course the students will be able to:

- Apply 5 theories that explain the primary drive of human behavior.
 - Explain how the unconscious mind might cause some unusual behavior.
 - Recognize barriers to problem solving. Improve odds at games of chance.
 - Apply theory to create an optimum environment in which to raise a child.
 - Spot subliminal and symbolic messages in ads.
 - Design schedules of reinforcement that help employees/athletes to perform at peak levels.
 - Use proven techniques to increase memory and achievement on tests.
-

Current Events**Grade 10 – 12**
2nd Semester Course

Current Events is structured to give students an understanding of current issues in many areas of political, social, economic, and historical nature. Students will show a greater understanding of issues that have dominated the news in the past several years. The objectives of this course are: to make the connection between current events and history, to enhance the student's understanding of world events, to encourage students to be informed citizens, and to help them to make intelligent decisions as they take a more active role in our world.

Government/Law
Required

Grade 12
1st Semester Course

The act of ruling, controlling, and guiding. This definition of governing, which is what government does, is central to this course. This class begins with the underlying political philosophies that have shaped our nation and world, and moving to the present-day. DeJure & DeFacto workings of our government, government as a course is reading, writing, discussing, debating, compromising, accepting and creating. The law part of the course examines the application of law in our society. The focus of this course is in two general areas: criminal law and civil law.

Economics
Required

Grade 12
2nd Semester Course

This course examines what makes our economy different from other global economic systems and how ours is dependent of these other systems. Topics covered in this course include:

1. The relationship between producers and consumers.
2. Investing money for the future.
2. Examining some of the economic policies our government pursues to maintain our financial health.

During the semester, students will also learn the correct procedure for filing their own personal income taxes as well as participating in a simulation of stock market investing.

Careers/Business

Careers 9

Grade 9
FULL YEAR COURSE

Continued look at career fields, personal interests, attitudes, abilities, necessary employment skills, and research of post-secondary education options to start a Career Plan that will be updated throughout high school.

*****ITV classes available upon request through Grand Meadow, Glenville-Emmons & Lyle High Schools.
 Please see the registration sheet for classes & times/hours they will be offered.***

