

**Melrose Area High School**  
**2024-2025 Registration Guide**  
**Course Description and Manual**  
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## **INTRODUCTION**

The following pages represent an effort by the faculty, administration and curriculum committee to provide you, the student, with descriptive literature about the course offerings at Melrose High School. This informational booklet has been compiled to give you a better understanding of your high school educational program. Included in this booklet are the class offerings and specific requirements of the 9-12 program. Since you will be taking many of these classes, it is recommended that you read the course descriptions and what is expected in each area.

The registration process is a very important step in your education program. You are asked to read this booklet on course offerings very carefully and plan accordingly. At registration time, you will receive supplementary materials indicating information that will help you in your planning process. As you read through this booklet, remember that staff and administrators are committed to teaching and assisting students with the challenge of the courses the student selects.

### **Course Planning and Request for Schedule Changes**

Students complete their registration requests in the spring of the previous school year and a schedule is designed for each student. It is expected that students choose courses that will best fit their interests. In a case where a student has changed their mind, they have 3 days after the start of each semester to make any schedule change requests.

In addition, we welcome the opportunity to answer any questions about the subjects we offer. Please contact the School Counselor at Melrose Area High School if you have any questions. Phone: 256-5160.

### **Instructions for Online Course Registration:**

1. Go to <http://www.isd740.org>
2. Click on "ParentVue" on the top of the screen.
3. Click "I am a student".
4. Enter your username and password under "Login". If you have not created your username and password, then you will have an activation code you will need to use to create your username and password and should click on the link on the right under "Activate My Account".
5. Click on "Course Request".
6. Select "Click here to change course requests" under your picture.
7. At the bottom of the screen, type in the course title listed in this registration guide. Then click on "Select Course". You will need seven courses that say "S1" (semester 1) and seven that say "S2" (semester 2).
8. Then, select 4 alternative courses.
9. Once you have 14 total requests and 4 alternative courses, select "Click here to return to course request summary" in the upper right side. Select "Lock in your course requests". Then logout.

# High School Graduation Requirements

It is the mission of Melrose Public Schools that as a unified team of professionals, we will assist students in their quest for knowledge, excellence, and lifelong skills as we provide for them a safe, positive learning environment.

## HIGH SCHOOL DIPLOMA REQUIREMENTS

A. A student shall satisfactorily complete the middle school program.

B. A student must earn a minimum of 46 credits (34 required, and 12 electives) in grades 9-12 to be eligible for graduation. **1 credit = 1 Semester or 2 credits = 1 Year.**

C. Required Courses:

<u>Grade</u>	<u>Subject</u>	<u>Credits</u>
9	English 9	2
	Social 9	2
	Mathematics	2
	Earth and Space 9	2
	Physical Education	2
10	English 10	2
	Biology 10	2
	Mathematics	2
	U.S. History	2
	Physical Education/Health	1
11	English 11 -OR- English 11/College Writing	2
	World History/Career Education	2
	General Chemistry	1
	Science Elective	1
	Math (Junior or senior year)	2
	Art (Complete anytime before grad.)*	2
12	2 English Classes	2
	American Government	1
	Economics	1

D. Credits needed to satisfy the 46 minimum might be selected from available electives.

E. One-hour semester classes count as one credit.

F. Students will **not** be allowed more than one study hall per semester. This means a student shall enroll in a minimum of six periods per day.

G. High school courses do not receive any weighted credit.

**\*You must complete 1 year of art prior to graduation. See page 8 for details.**

# HONORS PROGRAM

## HONORS DIPLOMA REQUIREMENTS (Starting with the class of 2026):

An honors diploma recognizing advanced academic courses selection is available to students. In order to qualify, a student must select **20** from the following courses and meet regular graduation requirements, plus have a cumulative **GPA of 3.00** at the end of the third quarter of senior year, and complete the **service hours** requirement (see pg 13).

<b><u>SUBJECT</u></b>	<b><u>COURSE</u></b>	<b><u>H.S. CREDIT</u></b>	
<b>Science.....</b>	College Human Anatomy and Physiology	1	
	College Chemistry	1	
	College Fundamental Concepts in Physics	1	
	Micro-Biology	1	
	College Biology	2	
<b>Mathematics.....</b>	Geometry (9th grade)	2	
	Algebra 3 (10th grade)	2	
	College Algebra	1	
	College Statistics	1	
	College Trigonometry	1	
	College Calculus	1	
<b>Social Studies.....</b>	College Psychology	1	
	College Sociology	1	
	Abnormal Psychology	1	
	Developmental Psychology	1	
<b>English.....</b>	College Public Speaking	1	
	College Writing	1	
	Writing about Literature	1	
	Horror and Supernatural Fiction	1	
	Enriched English 10	2	
	Enriched English 11	2	
	<b>Electives.....</b>	Intro to Education	1
College People & Cultures		1	
CEO		1	
College Body Conditioning		1	
College Weight Lifting		1	
Carpentry		1	
Mechatronics 1 or 2		1	
Advanced Culinary		1	
<b>World Language....</b>		Spanish (Each year)	2
		German (Each year)	2
<b>Art.....</b>	College Art	1	
	Symphonic Band (Each year)	1	
	Concert Band (Each year)	1	
	Concert Choir (Each year)	1	
<b>School Service .....</b>	Peer Tutor	1	

**IT IS THE STUDENT'S RESPONSIBILITY TO MAKE SURE THEY HAVE ENOUGH CREDITS TO QUALIFY FOR THE HONORS DIPLOMA.**

# HONORS PROGRAM - Class of 2025

## HONORS DIPLOMA REQUIREMENTS:

An honors diploma recognizing advanced academic courses selection is available to students. In order to qualify, a student must select 24 credits from the following courses and meet regular graduation requirements, plus have a cumulative GPA of 3.00 at the end of the third quarter of senior year.

<b><u>SUBJECT</u></b>	<b><u>COURSE</u></b>	<b><u>H.S. CREDIT</u></b>
Science	Human Anatomy and Physiology	1
	College Chemistry	1
	College Fundamental Concepts in Physics	1
	Biology I	1
	Biology II	1
	Micro-Biology	1
	College Biology	2
	Mathematics	Geometry 9+
Geometry		2
Algebra II-10		2
Algebra 3		2
College Algebra		1
Statistics		1
Trigonometry		1
Intro to Calculus		1
World Language	Spanish (Each year)	2
	German (Each year)	2
Social Studies	U.S. History	2
	Psychology	1
	American Gov't/Econ	2
	College Economics	1
	College Sociology	1
	Abnormal Psychology	1
	Developmental Psych	1
Technology	Mechatronics 1 or 2	1
Electives	Intro to Teaching	1
	College People & Cultures	1
	College Art	1
	CEO	2
English	College Public Speaking	1
	College Writing	1
	Writing about Literature	1
	Horror and Supernatural Fiction	1

**IT IS THE STUDENT'S RESPONSIBILITY TO MAKE SURE THEY HAVE ENOUGH CREDITS TO QUALIFY FOR THE HONORS DIPLOMA**

# POST-SECONDARY ENROLLMENT OPTIONS (PSEO)

## **POST-SECONDARY PROGRAM**

Postsecondary Enrollment Options (PSEO) is a program that allows 10th-, 11th- and 12th-grade students to earn both high school and college credit while still in high school, through enrollment in and successful completion of college-level, nonsectarian courses at eligible participating postsecondary institutions. Most PSEO courses are offered on the campus of the postsecondary institution; some courses are offered online. Each participating college or university sets its own requirements for enrollment into the PSEO courses. Eleventh and 12th-grade students may take PSEO courses on a full- or part-time basis; 10th graders may take one career/technical PSEO course. If they earn at least a grade C in that class, they may take additional PSEO courses from the same institution.

There is no charge to PSEO students for tuition, books or fees for items that are required to participate in a course. Students must meet the PSEO residency and eligibility requirements and abide by participation limits specified in Minnesota Statutes, section 124D.09.

### **From MDE:**

*“The school or school district must provide counseling services to pupils and their parents or guardian before the pupils enroll in courses under this section to ensure that the pupils and their parents or guardian are fully aware of the risks and possible consequences of enrolling in postsecondary courses. The school or school district must provide information on the program including who may enroll, what institutions and courses are eligible for participation, the decision-making process for granting academic credits, financial arrangements for tuition, books and materials, eligibility criteria for transportation aid, available support services, the need to arrange an appropriate schedule, consequences of failing or not completing a course in which the pupil enrolls, the effect of enrolling in this program on the pupil's ability to complete the required high school graduation requirements, and the academic and social responsibilities that must be assumed by the pupils and their parents or guardian. The person providing counseling shall encourage pupils and their parents or guardian to also use available counseling services at the postsecondary institutions before the quarter or semester of enrollment to ensure that anticipated plans are appropriate.*

*Prior to enrolling in a course, the pupil and the pupil's parents or guardian must sign a form that must be provided by the school or school district and may be obtained from a postsecondary institution stating that they have received the information specified in this subdivision and that they understand the responsibilities that must be assumed in enrolling in this program. The department must, upon request, provide technical assistance to a school or school district in developing appropriate forms and counseling guidelines.”*

### ***Student Notification of Intent to Enroll***

*To assist the district in planning, students are required to inform their district of their intent to enroll in PSEO courses during the following school year by May 30. Interested students must complete the Postsecondary Enrollment Options Program Registration Form. If public school students do not notify the enrolling district by May 30 and the enrolling district does not waive the deadline, the family may be responsible for the postsecondary tuition expense. - MDE*

**\*Please note: Melrose HS follows the MN Department of Education's (MDE) rule that a student must inform the Melrose HS School Counselor in writing by May 30, of the year prior, of their intent to enroll in PSEO. If the student does not follow this rule, they will be financially responsible to pay for their PSEO courses, fees, etc.**

**\* 2 college credits = 1 Melrose credit**

# College Credit Courses

At Melrose Area High School there are two ways for students to earn college credit while taking high school classes. Concurrent Enrollment is offered through Minnesota State Community & Technical College-Fergus Falls (M State), Southwest MN State (SMSU), and Central Lakes College (CLC).

The following courses at Melrose Senior High School are eligible for college credit:

Melrose Course	College Course Name (MSTATE COURSES)	# of College Semester Credit
College Writing	Engl 1101 College Writing	3
College English	Engl 1205 Writing about Literature	3
	Engl 2323 Horror and Supernatural Fiction	3
College Statistics	Math 1213 Introduction Statistics	4
College Trigonometry	Math 1115 Functions of Trigonometry	4
College Intro Calculus	Math 1122 Applied Calc/Linear Algebra	4
College Algebra	Math 1114 College Algebra	4
College Physics	Phys 1105 Fundamental Concepts in Physics	
College Biology	Biol 1122 General Biology I	4
	Biol 1123 General Biology II	4
College Anatomy	Biol 2260 Human Anatomy and Physiology I	3
	(You also receive a lab credit, Biol 2261 for this class)	1
College Chemistry	Chem 1100 Fundamental Concepts of Chemistry	3
College Psychology	Psyc 1200 General Psychology	3
College Abnormal Psych	Psyc 2220 Abnormal Psychology	3
College Dev Psychology	Psyc 2222 Developmental Psychology	3
College Sociology	Soc 1111 Introduction to Sociology	3
College Art	ART 1110 Intro to Art	3
<b>(CLC COURSES)</b>		
Spanish III	Span 1401 Beginning Spanish 1	4
Spanish IV	Span 1402 Beginning Spanish 2	4
German III	Germ 1401 Beginning German 1	4
German IV	Germ 1402 Beginning German 2	4
College Public Speaking	COMM 1430 Public Speaking	3
College People & Cultures	GLST 1401 Intro to Global Studies	3
College Body Conditioning	PHED 1521 Body Conditioning	2
College Weight Lifting	PHED 1522 Weight Lifting	2
<b>(SMSU COURSE)</b>		
Intro to Education	ED 101 Introduction to Education	3

- Students transferring to Melrose will have their transcript evaluated on a case by case basis to determine academic placement.
- The transcript information will be reviewed by the high school principal, counselor and a member of the appropriate department.
- In order for a student to be eligible to take any Melrose college class offerings, the student must successfully complete all Melrose prerequisite course offerings on Melrose's campus.
- Please check the course descriptions for the pre-requisite(s) to get into a college level course
- If you would like to know which M State / CLC / SMSU courses will transfer and what they transfer as at the college you plan to attend go to: <http://www.transferology.com> or search your college's website under "Transfer Admissions"
- GPA Requirements must be met: 3.2 or better for a junior and 2.8 or better for a senior

# Minnesota Transfer Curriculum (MnTC) Goals

The Minnesota Transfer Curriculum (MnTC) is the general education curriculum for the Minnesota State Colleges and Universities system. Completion of this defined transfer curriculum at one institution enables a student to receive credit for all lower division general education upon admission to any other Minnesota public institution.

To earn the full Minnesota Transfer Curriculum, all ten goal areas listed below must be completed. A total of at least **40 semester credits** must be earned. Completion of the MnTC meets the lower division general education requirements at Minnesota State Colleges and Universities and the University of Minnesota.

To receive an Associate of Arts degree (a two year, transferable general education degree), you need to fulfill the MnTC and take 20 elective credits.

## **Transfer Grades**

All college level courses in which a student has received a grade of A, B, C, D or P/S will be considered for transfer evaluation. No F grade courses will be accepted. **Please note that while D grades will transfer and will fulfill Minnesota Transfer Curriculum (MnTC) requirements, some programs require all courses to have a grade of C or higher to fulfill requirements.**

**\*\* (THE FOLLOWING OUTLINE IS BASED OFF OF TAKING THE AA ROUTE OFFERED THROUGH M STATE FERGUS FALLS).**

**\*\*Classes can cover one goal area.**

Goal 1 Communication - 9 credits from three courses:

**FULFILLED BY COMPLETING COLLEGE WRITING, WRITING ABOUT LITERATURE and PUBLIC SPEAKING**

Goal 2 Critical Thinking – 6 credits from two different disciplines:

**FULFILLED BY COMPLETING COLLEGE CHEMISTRY, COLLEGE TRIGONOMETRY, COLLEGE ALGEBRA, COLLEGE CALCULUS, INTRODUCTION TO STATISTICS, OR COLLEGE BIOLOGY I, HORROR AND SUPERNATURAL FICTION, MACROECONOMICS**

Goal 3 Natural Sciences - Minimum of two courses (7 credits), one course must be a lab: **FULFILLED BY COMPLETING S1 & S2 COLLEGE BIOLOGY OR A**

**COMBINATION OF COLLEGE BIOLOGY I, COLLEGE FUNDAMENTAL CONCEPTS IN PHYSICS, HUMAN ANATOMY & PHYSIOLOGY, COLLEGE CHEMISTRY**

Goal 4 Mathematical/Logical Reasoning - 3 credits:

**FULFILLED BY COMPLETING ANY ONE: COLLEGE ALGEBRA, INTRODUCTION TO STATISTICS, COLLEGE TRIGONOMETRY, COLLEGE CALCULUS**

Goal 5 History and the Social and Behavioral Science - Minimum of three courses (9 credits) from two different disciplines:

**FULFILLED BY COMPLETING 3 OF THE FOLLOWING: PEOPLE & CULTURES, INTRODUCTION TO SOCIOLOGY, GENERAL PSYCHOLOGY, DEVELOPMENTAL PSYCH OR ABNORMAL PSYCHOLOGY**

Goal 6 The Humanities and Fine Arts - Minimum of three courses (9 credits) from three different disciplines: **PARTIALLY FULFILLED BY COMPLETING HORROR AND SUPERNATURAL FICTION, AND COLLEGE ART**

Goal 7 Human Diversity – 3 credits: **FULFILLED BY COMPLETING INTRODUCTION TO SOCIOLOGY OR COLLEGE ART**

Goal 8 Global Perspective – 3 credits: **FULFILLED BY COMPLETING COLLEGE SUPERNATURAL FICTION, COLLEGE ECONOMICS. PEOPLE & CULTURES OR SPANISH 3 OR GERMAN 3**

Goal 9 Ethical and Civic Responsibility -3 credits:

**FULFILLED BY TAKING GENERAL PSYCHOLOGY OR DEVELOPMENTAL PSYCHOLOGY**

Goal 10 People and the Environment – 3 credits: **FULFILLED BY TAKING COLLEGE BIOLOGY II**

**\* Set up a meeting with your MSTATE advisor to complete a planning sheet for completing your AA or MN Transfer Curriculum while in high school.**

## What will count as my one year of art?

All students will need to have one year of art completed in order to graduate from high school. The following are the classes offered (must take 2 semester classes or one year of a class to meet the requirement).

### **Class of 2024-2026:**

- \*Ceramics I/II
- \*College Art
- \*Computer Aided Drafting I/II (CAD)
- \*Concert Band
- \*Concert Choir
- \*Floral Design (count as art OR science)
- \*Foods and Nutrition
- \*Foundations of Art
- \*Interior Design
- \*Painting I/II
- \*Symphonic Band
- \*Textiles/Home Decor and More
- \*Culinary Arts
- \*Drawing I/II

\*Fashion Design

\*Mass Media (count as English OR art)

### **Starting with Class of 2027, the following courses will count towards an art credit:**

- \*Ceramics I/II
- \*College Art
- \*Concert Band
- \*Concert Choir
- \*Foundations of Art
- \*Painting I/II
- \*Symphonic Band
- \*Drawing I/II
- \*Mass Media (count as English OR Art)

## What will count as my 3rd year of science?

Students are required after 10<sup>th</sup> grade (Class of 2026 and 2027) to take one semester of General Chemistry AND a science elective listed below.

- \*Animal Science
- \*College Anatomy
- \*College Biology
- \*College Chemistry (Must take General Chemistry first)
- \*College Physics
- \*Astronomy
- \*Exploring the Environment
- \*Micro-Biology
- \*Plant Science

**Class of 2028** and later will need to take 1 year of Earth & Space (9), 1 year of Biology (10), and 1 year of Chemistry or Physics (11).

**Class of 2024-2026** (these classes also count as a science elective if taken during or before the 2022-2023 school year):

- \*Floral Design
- \*Modern Ag

If you have any questions about these requirements, see the School Counselor.

# **AGRICULTURE / BUSINESS EDUCATION**

**\*\*\* Students who plan to be an FFA member MUST take an agriculture course during the year. Please see Mrs. Seifert if you have any questions or concerns.\*\*\***

## **EXPLORING AGRICULTURE (9-10)**

**SEMESTER**

This course will allow students to explore our nation's largest industry, agriculture and agribusiness. Students will be able to delve into areas of the industry, including animal and plant sciences, FFA opportunities and history, parliamentary procedure, and ag economics. Students will be conducting various labs and hands-on activities to enhance their learning.

## **ANIMAL SCIENCE (9-12)**

**SEMESTER**

This course is designed for students who are interested in both large and small animal care. Areas of study will include nutrition, reproduction, ethics, and veterinary care of both livestock and small/exotic animals. There will be lots of labs and hands-on activities as well as a few field trips to help students connect what they learn to real world scenarios.

## **PLANT SCIENCE (9-12)**

**SEMESTER**

If you have an interest in Horticulture or Agronomy, this class is for you! Students will explore the taxonomy of plants, growth and development of crops, and so much more! Labs and hands-on experiences will be a core part of this class so students can really explore the mystery of the science of plants.

## **MODERN AGRICULTURE (11-12)**

**SEMESTER**

Have you ever wondered what it takes to farm and grow food that helps feed our nation? Do you live on a farm, but want to learn more about the agriculture outside of our community? During Modern Agriculture, students will take an inside look at farming in the past, GPS, agronomy, markets, and business. Students will also have the chance to dive into food safety and sustainable agriculture, both hot button topics in everyone's lives, whether you are a farmer or not!. This class will be hands-on with several labs and field trips to help make all of the concepts learned in class relative to life outside of school.

## **EXPLORING THE ENVIRONMENT (9-12)**

**SEMESTER**

Natural resources are all around us. Through this class, students will be able to take an in-depth look into forestry, wildlife, and natural resources by exploring the outdoors, labs, and guest speakers. Special focus will be on those topics in Minnesota and how students can work to preserve them through good management practices.

## **FLORAL DESIGN (9-12)**

**SEMESTER**

This class will focus on the basics of plant science and art design, as it pertains to flowers. Students will have the opportunity to learn how to cut and care for flowers, plant identification, understand the basics in running a floral business, and design flower arrangements and corsages.

## **LIFE SKILLS (11-12)**

**SEMESTER**

Through this course, students will be able to evaluate their leadership style and better themselves as students, community members, and young adults. Students will also dive into how to live life after high school, including budgeting, resumes, cover letters, life in college, and time management. Through this course, students can focus on where they want to go, and what skills they will need to get them there.

## **COMMUNICATIONS SALES AND MARKETING (9-12)**

**SEMESTER**

Are you interested in a career in graphic design or communications? In this course, students will learn how to use the computer technology and techniques that are involved in those types of careers. Students will be using Microsoft Word and Google Docs to create a number of communications products that are relevant to most jobs. Items will include a budget spreadsheets, press releases, and professional emails. Students will also create and market their own product. Through this course, students will get a better idea of the skills needed in a communications career.

### **WORK BASED LEARNING (11-12)**

**SEMESTER**

Work Based Learning is an on-the-job program designed to give students internship-like experience by working with employers around our community. Students will meet in class for the first week, then 2 Monday's a month throughout the semester. This course will give students a chance to work on their employability skills while making connections that can help them with their future careers. Job opportunities will include courses in agriculture as well as industrial technology, ranging from animal nutrition and agronomy to welding and construction.

**Prerequisite:** Students will be required to fill out a form upon registering for the class to guarantee proper job placement.

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## **ARTS (VISUAL)**

### **FOUNDATION OF ARTS (9-12)**

**SEMESTER**

Highly recommended as a first choice high school art course.

Explore a variety of mediums in both the 2 dimensional and 3 dimensional visual arts while building upon knowledge of the elements and principles of art. This class will expand your basic knowledge and processes in: Drawing Methods and Mediums, Painting Methods and Mediums, Ceramics Handbuilding and Techniques, Mixed Mediums, Sculpture and Art History

### **ADVANCED STUDIO ART (12)**

**SEMESTER**

INDEPENDENT STUDY – PREREQUISITE REQUIRED

OPEN only to Seniors who wish to expand their area of interest in the ARTS. Prior to sign up the student has to have completed at least three Visual Art Semester classes with a B grade or higher. Will need to apply for approval before registration with the Art Instructor. Students will set up goal objectives and a timeline for project completion. Viewing of final projects will be displayed as a group in one of several venues. It is essential that the student be independently motivated because this class may overlap other classes being taught at the same time. Researching material methods, themes, project timelines and reflections are part of this course.

### **CERAMICS I (9-12)**

**SEMESTER**

Beginning class in which the elements and principles of art will be focused on when creating ideas and projects specific to ceramic media. Students will learn how to create, evaluate, critique, and appreciate works of art through a variety of hand building techniques including pinch, coil, and slab. A basic understanding of glaze, underglaze, and decorative clay processes will also be covered.

### **CERAMICS II (9-12)**

**SEMESTER**

This advanced course builds on the basic knowledge acquired in Ceramics I. The student advances to greater technical building skills. They explore more complex clay creations as they research how to implement personal ideas into clay. The student develops proficiency on the pottery wheel with form development, expansion into lids, handles, and varied finishing techniques. A deeper understanding of overall ceramic processes will be learned.

**Prerequisite:** Ceramics I

### **DRAWING I (9-12)**

**SEMESTER**

Beginning class that will provide an experience with a variety of drawing mediums. Including, graphite, charcoal, colored pencils, oil pastels, soft pastels, and ink. This course builds on students' basic knowledge and understanding of drawing as a 2-dimensional art form. Students will experience a variety of drawing tools, develop better compositions, and learn creative ways to express themselves through their images.

### **DRAWING II (9-12)**

**SEMESTER**

This advanced course reviews and expands on Drawing I concepts and mediums. While looking at the foundations of composition and drawing, students will explore more individual ways to expand their talents.

**Prerequisite:** Drawing I

### **PAINTING I (9-12)**

**SEMESTER**

A beginning painting course that covers a wide range of painting mediums and styles. Watercolor, Acrylic, and water soluble oil will be used to create a variety of projects including: self-portraits, watercolor cityscapes/landscapes, still life, and abstract art. An intense study of color mixing and techniques will also be focused on within each painting medium.

**PAINTING II (9-12)****SEMESTER**

While reviewing foundations of composition and painting basics students will explore new ways to use their skills to a more personal level. Exploration of painting styles and techniques will be built upon as well.

**Prerequisite:** Painting I

**COLLEGE ART - The Practicing Artist (11-12)** (H, C)**SEMESTER**

This course is designed to provide students with the skills, mindset, knowledge, and philosophies that are necessary to achieve success in the visual arts. Students will use their artistic and expressive abilities to create original two-dimensional and three-dimensional works of art using a variety of techniques and mediums. Students will develop creative thinking and self-management skills. This course will also focus on art presentation, art history, art critique, and technology.

**Prerequisite:** Must meet the college GPA requirement in order to obtain college credit.

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**ELECTIVES****INTRODUCTION TO EDUCATION (11-12)** (H)**SEMESTER**

Introduction to Education is an introduction to early childhood, elementary, and secondary education for students interested in teaching. The course includes the study of historical and social foundations of education topics such as inquiry into the teaching and learning process, schools in a multicultural and diverse society, the profession of teaching principles of cooperative group learning and cultural differences, communication, and stereotyping. Fifteen hours of field experience is required. Optional college credit available - see the guidance counselor for more information.

**Prerequisite:** Student will have an interview and submit letters of recommendation in order to be considered for the class. Placement is by committee selection.

**PEOPLE & CULTURES (Global Studies) (11-12)** (H, C)**SEMESTER**

Students will examine the interdependence of people around the world and global issues that affect these relationships. We will hear from guest speakers from all paths of life. We will gain intellectual experiences enabling us to explain many aspects of our world. Why do some individuals protest and others do not? Discussions about what it means to live ethically and the definition of social justice...from all points of view, will be included. The course will provide an overview of the history that has created a global society through topics such as global politics, human rights, the natural environment, population, gender and capitalism.

**Prerequisite:** Must meet the college GPA requirement in order to obtain college credit.

**CEO ENTREPRENEURSHIP (11-12)** (H)**YEAR**

WSCEO is a year-long course that is unlike any other class offered in Sauk Centre. It will provide you with an exciting, hands-on, and engaging learning experience. The class is completely project-based. You will complete 4 projects throughout the school year including starting and operating your own viable businesses. These projects let you learn by doing, not from a textbook. You gain experience learning how to advertise, how to act in business meetings, how to invoice customers, how to account for the finances of the businesses, and so much more! You will learn so much more than business concepts; problem-solving, teamwork, self-motivation, responsibility, higher-order thinking, communication, and inquiry are at the heart of student development throughout the course. You will work on simple, yet important things such as eye contact, posture, dress, and handshakes. More importantly, you will build relationships and make connections with leaders throughout the community that few students your age have the opportunity to make. In addition, you also visit between 35-45 area businesses, learn from guest speakers, and see firsthand how these businesses operate. The class meets for 1 ½ hours each school day from 7:30-9:00 am. The class never meets at school! We meet at a variety of businesses throughout the 3 communities. The class is populated by students from Melrose, Sauk Centre, and Albany High School students. Students are required to provide their own transportation to meeting locations and dress business casual for all class sessions.

**Personal Finance and Business Basics (11-12)**

What does it look like to be a professional? Understanding personal finance and the basics of business will help you with any career you may pursue. This course is intended to cover a broad variety of topics such as: personal finance topics, forms of organizing a business, investing, computer applications, government programs and regulations, and more!

**PEER TUTOR (SERVICE HOURS) (11-12) (H)**

The Peer Tutor program is designed to provide tutorial assistance to youth in grades PreK - twelve who are having a difficult time in one or more subject areas. Individuals may work in the WIN room, the classroom, or the special education room at the elementary, middle, or high school. Persons must have a desire to share study skills, have a positive, caring attitude, and be genuinely interested in helping others. Peer tutors need not be considered to be academically gifted; however, experience has shown that any student who has the motivation can be an effective tutor. School service credits may be earned. This credit will count towards an honors diploma. Individuals interested in finding out more about the program should contact the School Counselor.

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**ENGLISH**

**Requirements / Qualifying Factors for getting into English Courses**

<b>Desired Class</b>	<b>STAR Test</b>	<b>MCA Test</b>	<b>English Grades (GPA)</b>	<b>Additional Requirements</b>
<b>Enriched English 10</b>	Scores from 8 <sup>th</sup> and 9 <sup>th</sup> Grade – must be at grade level	Scores from 8 <sup>th</sup> Grade – Students must meet standards	8 <sup>th</sup> and 9 <sup>th</sup> Grade Students must have a B or higher in English classes.	Teacher Recommendation
<b>Enriched English 11</b>	Scores from 8 <sup>th</sup> and 9 <sup>th</sup> Grade – Must be at grade level	Scores from 8 <sup>th</sup> Grade – Students must meet standards	8 <sup>th</sup> , 9 <sup>th</sup> , and 10 <sup>th</sup> Grades Students must have a B or higher in English classes.	Teacher Recommendation
<b>College Writing</b>	Scores from 9 <sup>th</sup> , 10 <sup>th</sup> , and 11 <sup>th</sup> Grades – Must be at grade level	8 <sup>th</sup> Grade and 10 <sup>th</sup> Grade - Students must meet standards	9 <sup>th</sup> , 10 <sup>th</sup> , and 11 <sup>th</sup> grades. Students must have a B or higher in English classes.	Teacher Recommendation
<b>College Writing About Literature * Must take College Writing 1st.</b>	Scores from 9 <sup>th</sup> , 10 <sup>th</sup> , and 11 <sup>th</sup> Grades	8 <sup>th</sup> Grade and 10 <sup>th</sup> Grade - Students must meet standards	9 <sup>th</sup> , 10 <sup>th</sup> , and 11 <sup>th</sup> grades. Students must have a B or higher in English classes.	Teacher Recommendation
<b>College Horror Supernatural Fiction * Must take College Writing.</b>	Scores from 9 <sup>th</sup> , 10 <sup>th</sup> , and 11 <sup>th</sup> Grades	8 <sup>th</sup> Grade and 10 <sup>th</sup> Grade - Students must meet standards	9 <sup>th</sup> , 10 <sup>th</sup> , and 11 <sup>th</sup> grades. Students must have a B or higher in English classes.	Teacher Recommendation
<b>College Public Speaking</b>	Scores from 9 <sup>th</sup> , 10 <sup>th</sup> , and 11 <sup>th</sup> Grades	8 <sup>th</sup> Grade and 10 <sup>th</sup> Grade - Students must meet standards	9 <sup>th</sup> , 10 <sup>th</sup> , and 11 <sup>th</sup> grades. Students must have a B or higher in English classes.	Teacher Recommendation

**ENGLISH 9 (9)**

**YEAR**

This course consists of an integrated approach to literature and language. The skills of reading, writing, speech, mechanics, grammar, and usage are all interrelated and will be emphasized in this class. Students will read short stories, poems, a Shakespearean play, novels, and other non-fiction. Class and group discussions, quizzes, or in-class work will follow each of the readings. Emphasis is on writing and vocabulary, modeled from the "6+1 Traits of Writing." Digital Literacy, presentations, essays, and other projects will also be included.

**ENGLISH 10 (10)**

**YEAR**

This year-long course uses an integrative approach to develop students' understanding and appreciation of literature and to improve their communication skills. The Minnesota State Reading, Writing, Vocabulary, and Speaking Standards will be covered in this class. The students read and discuss a variety of short stories, poems, plays, novels, and nonfiction while building their writing skills through the study of spelling, vocabulary, grammar, and usage and composition techniques. Students will also give two speeches, one informative and one persuasive, throughout the year. Finally, students will prepare for the State Reading Test by practicing the fundamentals of reading.

**ENGLISH 11 (11)****YEAR**

This course uses an integrative approach to develop students' understanding and appreciation of literature and to improve their communication skills. The students read and discuss a variety of short stories, poems, plays, novels, and nonfiction while building their writing skills through the study of spelling, vocabulary, grammar, and usage and composition techniques. Students will also learn and practice the fundamentals of public speaking, write a research paper, and read a Shakespearean play.

**ENGLISH 11/COLLEGE WRITING 1101 (11)****YEAR**

*\*Juniors who qualify (see chart) to take College Writing must take English 11 first semester and College Writing second semester. Otherwise, juniors will take English 11 all year.\**

This course uses an integrative approach to develop students' understanding and appreciation of literature and to improve their communication skills. The students read and discuss short stories, poems, novels, nonfiction prose, *The Crucible*, and a Shakespearean play while building their writing skills through the study of spelling, vocabulary, grammar, usage, and composition techniques. The second semester of the class will be for college credit.

*\*\*Second semester students will take English 11 OR College Writing 1101 \*not both\*\*.*

**COLLEGE WRITING 1101 (11-12) (H, C)****2nd SEMESTER**

Students will write several expository essays after studying models. This course also emphasizes the relationship between logic and rhetoric writing, which culminates in writing an argumentative research paper.

**Prerequisite:** See Chart

**ENGLISH ELECTIVES**

(These courses are reserved for seniors but as seats are available, juniors may also take them as electives).

**MYTHS AND LEGENDS (11-12)****SEMESTER**

This course will examine where all of our stories came from. By reading myths and legends from various cultures, students will be introduced to stories that have been the starting point for all storytelling which has led to modern day movies, television shows, and video games.

**FILM (11-12)****SEMESTER**

Film class is a study of the history of film-making, its technology, its directors, stars, and its techniques. A great deal of current event information is read, exchanged, and discussed. We cover film terminology, inventions, dates, and genres, or types of films. We view seven to eight films, including silent, black and white, and color films. We also view and watch a Shakespearean play. We write an actor report, movie reviews, a script for a movie, and a censorship report and do projects on directors and Academy Awards. We do three speeches in class and also produce a short film.

**MASS MEDIA (11-12)****SEMESTER**

We study mass media of all kinds as well as their effects. Units and projects include newspaper, magazine, music, movies, TV, and advertising techniques.

**CREATIVE WRITING (11-12)****SEMESTER**

Creative Writing provides students with opportunities to develop their literary talents. This course includes a study of varied forms of prose and poetry and gives students the experience to write creatively in different genres.

**YOUNG ADULT LITERATURE (11-12)****SEMESTER**

The lives of teens and tweens in today's world is one of chaos and drama. This course will read literature that is meant to be read and enjoyed by young people. Many of these novels and stories will deal with real life problems that young people face today, and we will examine these problems through in depth discussion and analysis.

**HUMANITIES (11-12)****SEMESTER**

Humanities, in its simplest terms, are the study of what makes us human. This crosses many disciplines including history, literature, music, sociology, and even popular culture. Throughout this course we will be touching on basic elements of humanities through various eras. We will study how each of these eras have affected the world today, so hopefully by studying the past, we will have a better understanding of our world today. This includes a self-select novel, a Greek tragedy, and a Shakespearean play among other literary works.

**ESSENTIAL ENGLISH (11-12)****YEAR**

This course has been developed to help students become successful members of the workforce and society. Along with crafting emails, cover letters, resumes, and other work-related pieces, students will also improve communication skills, complete a short research project, and explore other English-related occupational endeavors.

**Prerequisite:** Teacher or administration placement only.

**COLLEGE PUBLIC SPEAKING (11-12)** (H,C)**SEMESTER**

(This class was formerly known as "Speech and Theatre"). This class includes several speech activities such as personal experience, pet peeve, introduction of a classmate, persuasive, and a body language unit as well as pantomime and acting activities. We will cover theater terminology and audition for and produce a short play. This is for college credit.

**Prerequisite:** Must meet the college GPA requirement in order to obtain college credit.

**COLLEGE WRITING ABOUT LITERATURE (12)** (H, C)**1st SEMESTER**

College Writing about Literature 1205: This course builds on the foundations of College Writing 1101 and provides students with additional opportunities to develop fluency in their writing in regard to literature. Students will read and write critically from a variety of literary genres, a group novel of their choice, short stories, drama, and poetry. They will explore meaning through literary criticism and respond through discussion and writing.

**Prerequisite:** Successfully complete College Writing 1101.

**COLLEGE HORROR AND SUPERNATURAL FICTION (12)** (H, C)**2nd SEMESTER**

College Horror and Supernatural Fiction 2323: This course is an in-depth study of literary texts that fall under the category of horror and/or supernatural fiction. While the focus is on this genre, the course also addresses sub-categories of detective fiction, science fiction and fantasy. Delving into the history of horror and what creates it in humans, we read and discuss Poe's short stories, a group novel of your choice, Shakespeare's Macbeth, Frankenstein excerpts, and even some Bradbury. The possibilities are endless!

**Prerequisite:** Successfully complete College Writing 1101.

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**FAMILY AND CONSUMER SCIENCE****INTERIOR DESIGN (9-12)****SEMESTER**

Do you have an eye for design? Are the aesthetics of your surroundings important to you? This course is designed to help you understand your own housing needs and help in making decisions about your own home. Course content provides opportunities for students to explore housing styles, elements and principles of design; space planning by creating functional, safe and aesthetic spaces for individuals and families; furniture style; and careers in the field of interior design. This course includes a variety of hands-on design projects.

**FOODS AND NUTRITION (9-12)****SEMESTER**

This course will introduce you to the world of food. You will learn about the latest recommendations of the food pyramid and your personal food needs. Basic culinary skills will also be taught and practiced through food lab experiences. You are what you eat so come discover the nutrients in your favorite foods.

**CULINARY ARTS (10-12)****SEMESTER**

This one semester course will enhance the introductory knowledge and skills learned in Foods and Nutrition. Students will implement individual selections and creativity in lab preparation. The skills learned in this class may lead to a job in the future. The need for enthusiastic, hard working employees in food service is growing. The food service industry provides an ever-changing and rewarding job setting with very diverse opportunities. **Culinary Arts is a prerequisite for Advanced Culinary.**

**Prerequisite:** Foods and Nutrition

**ADVANCED CULINARY (11-12)** (H)**SEMESTER**

Take your Culinary Skills to a higher level through this course. This course is focused on learning about the restaurant and culinary world. Students will learn about career opportunities in the culinary field, prepare a variety of different foods, practice roles of restaurant staff: host/hostess, cashier, bussing, dishwashing, server, manager, prep cook, line cook, dessert chef, sous chef and head chef as well as serve prepared food to staff and other guests. Students will learn about calculating food costs to determine cost of meals/meal pricing/profit and create market orders while practicing professional dress and sanitation procedures. Course includes guest speakers and field trips.

- **Class Fee: May include lab fee for chef coat and hat.**
- **Prerequisites: Foods and Nutrition, Culinary Arts and Teacher Approval**
  - Students must complete an application from the instructor and seek approval from the instructor and administration to enroll in this course.

**HUMAN RELATIONS (10-12)****SEMESTER**

This course is designed to provide the student with a framework for developing and maintaining healthy relationships within a social and/or work structure. The development of positive people skills is emphasized and other topics covered include: self-esteem, stress, assertive behavior, self-assessment, equity issues, the decision making process, interpersonal communication skills and study of the rich diversity of our world's cultures.

**CHILD DEVELOPMENT I (10-12)****SEMESTER**

This course is a study of the physical, social, emotional and intellectual needs of children. The course follows human development from birth through adolescence. The course also focuses on exceptional children and the importance of good parenting in today's society. Each student will experience parenting for 72 hours with the "Real Care Baby" infant simulator.

**CHILDCARE CAREERS (10-12) -offered every other year-****SEMESTER**

This course will take you beyond the topics covered in Child Development I by observation and visits to various preschool and classrooms. You'll be asked to observe, evaluate and participate in activities, as well as creating your own lesson plans with preschool, elementary, or even middle school students! If you are interested in a career dealing with young children and/or families, this is a good class for you.

**Prerequisite:** Child Development I

**HOME DECOR AND MORE (9-12)****SEMESTER**

Like to decorate or have an interest in making your own home furnishings? This class allows you to be creative while exploring and constructing the latest trends in regards to home decor through project based learning. Students who have an interest in design or like hands-on projects will enjoy this... it's a mix between sewing accompanied by interior design aspects. Projects are based on student interests, but some examples include throw blankets and quilts, throw pillows, wall hangings, and possibly embroidery and upholstery. This course is recommended for innovative, artistic students!

**FASHION DESIGN (9-12)****SEMESTER**

This course is the study of the history of fashion to present day trends, including basic sewing techniques and garment production. The primary units of study include history of fashion, the basic elements of art and sketches, and operation of a sewing machine. Students will construct several different products in the areas of garments and accessories. This course is recommended for students who are creative and have an eye for fashion!

**Prerequisite:** Textiles/Home Decor and More.

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**INDUSTRIAL TECHNOLOGY****HOUSE WIRING (9-12)****SEMESTER**

This is a beginning course in electricity. Emphasis is on practical applications in house wiring, meters and circuits. If you are planning a career as an electrician, a lineworker, or becoming a homeowner and doing some of your own wiring, take this course. At least 50% of the class is "hands on" working with tools, test equipment and circuits.

**HOME IMPROVEMENT "101" (10-12)****SEMESTER**

This is the ideal class for someone who plans on being a homeowner or just "handy around the house". This is a beginning class and will include at least 50% hands-on activities. Areas covered will include: simple electrical, basic plumbing, wall repairs, painting & varnishing, hinges & hardware, tool usage identification and basics, house financing/insurance & loans and "whole lot more".

**SMALL ENGINES 1 (9-12)****SEMESTER**

This Small Engines course is designed to introduce the student to sources of power in American technology and industry. You will study the design and function of small engines and rebuild an overhead valve small engine. Briggs and Stratton engines, provided by the school, will run when you start the class. These engines are completely disassembled, analyzed and reassembled. The engines are then run again before you end the class.

**SMALL ENGINES 2 (9-12)****SEMESTER**

This class expands upon the basic knowledge learned in Small Engines I. The class covers 4-cycle Overhead Valve Twin Cylinder engines, Two Cycle engines, and introduces snowmobile and marine engines.

**Prerequisite:** Small Engines 1

**BASIC AUTOMOTIVE (10-12)****SEMESTER**

Autos 1 will acquaint the student with the basic parts, maintenance, insurance, financing, and purchasing of an automobile. Major systems covered include: ignition, cooling, lubrication, fuel, electrical, and computer systems. This is an excellent course for anyone who will own an automobile whether the work on the vehicle themselves or bring it to a service facility. Access to a vehicle on which to work is helpful but not required.

**ADVANCED AUTOMOTIVE (10-12)****SEMESTER**

Introduces basic service and repair procedures for the engine and its subsystems in modern automobiles. Students will learn how to safely perform basic repair, maintenance operations, automotive diagnosis and tune-up procedures as they pertain to the function and control of the engine, fuel, ignition, starting, and charging systems.

**Prerequisite:** Basic Automotive

**BASIC AUTO BODY REPAIR (10-12)****SEMESTER**

This basic auto body course covers: Auto Body Welding, Sheet Metal Techniques, Body Fillers, Reinforced Fiberglass, Spot Putty and Primers. This being a basic class, spot welding with wire-feed welders is emphasized and practiced heavily. Body work will be confined to fenders and panels supplied by the school. Paint work will be using primer. Over 50% of the class will be lab work.

**BASIC WOODS (9-12)****SEMESTER**

Wood Technology I is the introductory course to woodworking. You will learn the fundamentals of working effectively and safely with many of the hand and power tools in which you will be applying many of the principles which you have learned in your math and science classes to plan, fabricate and finish wood product or products which you design. You will be offered insight into many interesting careers in the wood and wood products industry. No previous woodworking experience is necessary.

**ADVANCED WOODS (9-12)****SEMESTER**

Wood Technology II consists of an introduction and a more in-depth study of woodworking and the furniture industry. You will learn how to maintain machines and tools and to accomplish advanced shaping, forming, and assembly techniques. You will design, fabricate, and finish a product of your choice as a requirement of this course. A portion of the class will be spent in career exploration.

**Prerequisite:** Basic Woods

**CARPENTRY (11-12) (H)****SEMESTER**

Carpentry is designed to be exploratory in nature. It is the natural step between high school and vocational school, working in a construction career or becoming a homeowner and doing some of your own remodeling. You will be offered ideas for planning and organizing with special emphasis placed on the knowledge of the types and uses of the various materials and the tools, which are used in construction. You will study home planning, blueprint reading, cabinet making, and building construction techniques, as well as, material utilization, types and grades. Technical college credit will be awarded for those who complete the requirements.

**Prerequisite:** Basic and Advanced Woods

**BASIC MECHATRONICS/ROBOTICS (Formerly Mechatronics 1)(9-12) (H) 171710-40****SEMESTER**

This class is a combination of Electronics, Hydraulics & Robotics. Basic electronic principles are covered and then the class progresses to hydraulic, pneumatic and robotic principles. Robotics combines mechanical, electronic, and information technology into a single discipline that overlaps traditional boundaries. People interested in robotics need to be curious and want to know how and why things work.

**ADVANCED MECHATRONICS/ROBOTICS (Formerly Mechatronics 2) (9-12) (H) 171710-41 SEMESTER**

This advanced class includes a small amount of Electronics (unlike Robotics 1) and deals more heavily with hydraulics and pneumatics. The Automation Xpert program is utilized and hands-on hydraulics and pneumatics equipment is emphasized. VEX Robotics program will be used as well as Festo commercial and institutional pumps, controls, lines, actuators and sensors.

**Prerequisite:** Basic Mechatronics/Robotics and CAD

**COMPUTER AIDED DRAFTING (CAD I) (9-12)**

**SEMESTER**

The Computer Aided Drafting (CAD) class will introduce students to a rapidly expanding area within the CAD-drafting field. Students will have the opportunity to use CAD software on the computers. The students will get a sampling of mechanical, as well as, architectural assignments using 3-D Home Architect and Interiors, Gibbs Cam software and other CAD software.

**BASIC WELDING (9-12)**

**SEMESTER**

This basic welding course provides the proper foundation in multi-process. Proper safety, set up and planning procedures will be stressed. Gas, Arc, Wire welding will be introduced as well as plasma, oxy-fuel and saw cutting processes. *No prior knowledge or experience is necessary.*

**ADVANCED WELDING (10-12)**

**SEMESTER**

Advanced Welding is designed to introduce you to modern equipment and technological processes for metal fabrication. You will develop basic skills by using metal working tools and equipment. Upon completion of introductory exercises, you will apply these skills toward the fabrication of products or repair and modification of many different items. Areas covered include Metalworking, Gas and arc welding and MIG.

**Prerequisite:** Basic Welding and CAD

**BASIC MANUFACTURING (9-12)**

**SEMESTER**

This course is an introductory course of the Manufacturing pathway that provides students with an understanding of manufacturing processes and systems common to careers in machine tool and related industries. Throughout the course the student will develop an understanding of basic machining principles, (on a vertical mill and lathe) manufacturing processes including additive and subtractive manufacturing. No prior knowledge or experience is required.

**ADVANCED MANUFACTURING (10-12)**

**SEMESTER**

Advanced Manufacturing is a course designed to prepare students for post-secondary education and or a career in the Manufacturing industry. Students will be designing, prototyping, fabricating a component to market and sell.

**Prerequisite:** Introduction to Manufacturing and CAD

**SUPERMILEAGE (9-12)**

**SEMESTER**

This course will guide students to design, build, and race a vehicle powered by gas, diesel, or electric. Upon completion of the design and build portion students teams will compete to see who has built the most fuel efficient vehicle in a two day race during the spring at Brainerd International Raceway. There are no prerequisites to this course, however, courses such as Small Engines, Welding, Manufacturing and CAD will all be utilized during this course.

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## **MATHEMATICS**

STAR testing for all students in the fall and winter. Spring testing upon teacher request.

Students transferring to Melrose will have their transcript evaluated on a case by case basis to determine academic placement. The transcript information will be reviewed by the high school principal, counselor and a member of the appropriate department.

In order for a student to be eligible to take any Melrose college class offerings, the student must successfully complete all Melrose pre-requisite course offerings on Melrose's campus.

Current Course	Get into	STAR	MCA	Math GPA	Overall GPA	Additional Requirements
S1: Math 7	S2: Math 7+	> 1142	≥ 655	N/A	N/A	Teacher Recommendation
Math 7 <b>or</b> Math 7+	Algebra 8+	> 1156	≥760	≥ 3.6	N/A	Teacher Recommendation
Algebra 8+	Geometry	> 1163	≥ 860	≥ 3.3	N/A	
Algebra 3 GRADE 10	College Algebra College Statistics	> 1174	N/A	≥ 3.0	≥ 3.4	≥ 22 on ACT (when available) (if STAR requirement not met) Accuplacer: College Level Math Score ≥ 50 or Intermediate Algebra Score ≥ 60 to qualify for College Algebra. College Level Math Score ≥ 76 or Calc Readiness Score ≥ 14 to qualify for College Statistics.
Algebra 3 GRADE 11	College Algebra College Statistics	N/A	≥ 1150	≥ 2.8	≥ 3.2	≥ 2.0 in previous College Math Course Accuplacer: College Level Math Score ≥ 50 or Intermediate Algebra Score ≥ 60 to qualify for College Algebra or ACT Math Sub Score ≥ 22 (when available). College Level Math Score ≥ 76 or Calc Readiness Score ≥ 14 to qualify for College Statistics or ACT Math Sub Score ≥ 25 (when available).
College Algebra	S1: College Trigonometry S2: College Calculus	N/A	N/A	2.8 12th	3.2 12th	≥ 2.0 in previous College Math Course

## **ALGEBRA 2**

**YEAR**

Algebra 2 is a continuation of the study of linear algebra concepts and skills covered in Algebra 1 (eighth grade). You will review and refine solving linear equations and inequalities, and linear functions. The study of functions is expanded to include quadratic, exponential, radical, and rational functions. Algebra is connected to data through the study of probability and data analysis.

**Prerequisite:** Algebra 1 or equivalent pre-algebra course

## **GEOMETRY** (H, if taken in 9th grade)

**YEAR**

Basic foundations of geometric concepts will pave the way to geometric reasoning and mathematical proof. Knowledge of coordinate geometry, polygons, similarity, and right triangle trigonometry will be taught and expanded to include real world problems.

**Prerequisite:** Algebra 2 or Algebra 8+

## **ALGEBRA 3** (H, if taken in 10th grade)

**YEAR**

A continuation of skills taught in Algebra 2. Students will expand their study of linear functions. They will advance to quadratic, polynomial, rational, and radical functions. The concepts will give way to meaningful real world applications.

**Prerequisite:** Geometry

## **COLLEGE ALGEBRA (11-12)** (H, C)

**SEMESTER**

This course includes rational, polynomial, exponential, logarithmic, inverse and quadratic functions. The course also includes equations, inequalities, complex numbers and systems of linear equations. Additional topics may include matrices and determinants.

**Prerequisite:** See prerequisite table on page 18

**COLLEGE STATISTICS (11-12)** (H, C)**SEMESTER**

This course is an introduction to statistics. Topics include data summary, frequency distributions, plots, graphs, and measures of central tendency, variations, probabilities, probability distributions, and confidence intervals. Hypothesis testing of means, proportions, and variances will be conducted using z-test, t-test, chi-square test, f-test and Anova.

**Prerequisite:** See prerequisite table on page 18

**COLLEGE TRIGONOMETRY (11-12)** (H, C)**SEMESTER**

This course includes trigonometric functions, right triangle trigonometry, radian measure and circular functions, identities, equations, inverse functions, oblique triangles, complex numbers, vectors, polar coordinates and conic sections.

**Prerequisite:** College Algebra.

**COLLEGE CALCULUS (11-12)** (H, C)**SEMESTER**

This course covers the fundamentals of a first semester calculus course, which any college freshman entering the fields of engineering, the physical sciences, business, economics, and the life sciences may encounter. Topics to be covered are continuity and limits of functions, differentiation, and integration.

**Prerequisite:** College Trigonometry.

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**MUSIC****SYMPHONIC BAND (9-10)** (H)**YEAR**

The Symphonic Band is the entry-level ensemble of the high school band program (9th and 10th Graders). Successful completion of 7th and 8th grade band and/or the ability to demonstrate proficiency on the instrument at the ability level of 9th grade is the prerequisite. Students will further develop skills and abilities in instrumental music according to the curriculum. Students must be in the band all year consecutively each quarter and present for daily band rehearsals to receive credit and advance to the next band. Emphasis is placed on ensemble playing, but solo performance and the enhancement of individual skills will also be strongly encouraged. Students may receive individual lessons on their specific instruments. The Symphonic Band prepares for three regular concerts, Memorial Day, large group contest, and graduation. Participation in the solo/ensemble contest is encouraged. Other performance opportunities include brass and woodwind choirs, percussion ensembles, and a multitude of small chamber ensembles.

**Prerequisite:** Successful completion of 7th and 8th grade band.

**CONCERT BAND (11-12)** (H)**YEAR**

The Concert Band is the most advanced of the high school band program. Students must be in the band all year consecutively each quarter and present for daily band rehearsals to receive credit. Emphasis will be placed on ensemble performance while also enhancing individual skills according to the curriculum. Students may receive individual lessons on their specific instruments at least twice per quarter. The Concert Band prepares for three regular concerts, Veteran's Day, Memorial Day, large group contest, solo and ensemble contest, and Graduation each year. Every other year the Concert Band has a traveling opportunity. Other performance opportunities include Jazz Band, brass ensemble and woodwind choirs, percussion ensembles, and a multitude of small chamber ensembles.

**Prerequisite:** Successful completion of 7th thru 10th grade band.

**JAZZ BAND (9-12)** (H)**YEAR**

The Jazz Band is a combination of students in both the Symphonic and Concert band. The main focus will be performance and the study of jazz music. All instruments are accepted. Students will learn how to improvise, solo and understand the forms and history of jazz music. The group will perform at concerts, festivals, and contests and also may travel with the music department.

**Prerequisite:** Must be enrolled in Concert or Symphonic Band.

**CONCERT CHOIR (9-12) (H)****YEAR**

The Concert Choir is a singing group open to all students in grades 9-12. This choir will continue to build upon and apply the vocal skills and music reading skills acquired in earlier choral experiences. The Concert Choir is the primary performing group of the high school program. Students will sing arrangements both accompanied and a capella. There are three required concerts throughout the year, plus a performance at the Veteran's Day program, graduation and large group contest. Small ensembles are available to students who wish to devote more time to singing. Participation in the District Solo/Ensemble contest is strongly encouraged but not required.

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**PHYSICAL EDUCATION AND HEALTH****10TH GRADE PHYSICAL EDUCATION/HEALTH (10-12)****SEMESTER**

The sophomore physical education curriculum will consist of the following activities; flag football, ultimate Frisbee, tennis, volleyball, team handball, basketball, bowling, softball, swimming, racket sports, lacrosse, aerobic exercise and fitness testing. Daily fitness will be emphasized along with development of personalized strength training program that will be incorporated weekly throughout the year. There will be 9 weeks of health education covering CPR, first aid and nutrition.

**9TH GRADE PHYSICAL EDUCATION/HEALTH (9-12)****YEAR**

The freshman physical education curriculum will consist of a variety of activities. Some of the activities include Ultimate Frisbee, Swimming/pool activities, Flag Football, Soccer, Volleyball, Dance, tennis, racket sports, Basketball, Bowling and Golf. An emphasis on developing a lifelong fitness level will be incorporated into our weekly units with weight training and personal aerobic fitness sessions one to two days per week.

-The 9<sup>th</sup> grade health curriculum consists of mental health, human reproduction, body systems and body composition. The last unit is a project-based disease unit.

**COLLEGE BODY CONDITIONING (11-12) (H,C)****SEMESTER**

This is a course for students of all ages and fitness levels introducing the main components of wellness and of physical fitness – cardio-respiratory endurance, muscular strength and endurance, flexibility, body composition, and nutrition. Students will focus on self-evaluation in each component and personal program planning for living a healthier life. Current topics in wellness and/or fitness will be addressed. Students will choose a capstone project which will be either a written or oral research-based study, or service learning activity based project. Courses in the Honors Program emphasize independent inquiry, informed discourse, and direct application within small, transformative, and seminar-style classes that embrace detailed examinations of the material and feature close working relationships with instructors. In addition, students learn to leverage course materials so that they can affect the world around them in positive ways.

**Prerequisite:** Must meet the college GPA requirement in order to obtain college credit.

**COLLEGE WEIGHT LIFTING (11-12) (H,C)****SEMESTER**

This is a course for students of all ages and fitness levels introducing the main components of wellness and of physical fitness – cardio-respiratory endurance, muscular strength and endurance, flexibility, body composition, and nutrition. Students will focus on self-evaluation in each component and personal program planning for living a healthier life. Current topics in wellness and/or fitness will be addressed. Students will choose a capstone project which will be either a written or oral research-based study, or service learning activity based project. Courses in the Honors Program emphasize independent inquiry, informed discourse, and direct application within small, transformative, and seminar-style classes that embrace detailed examinations of the material and feature close working relationships with instructors. In addition, students learn to leverage course materials so that they can affect the world around them in positive ways.

**Prerequisite:** Must meet the college GPA requirement in order to obtain college credit.

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**SCIENCE****PHYSICAL SCIENCE (9) (Class of 2027 and prior)****YEAR**

Physical Science is composed of two major branches of science, Chemistry and Physics. Chemistry is the study of the properties of matter and the reactions through which matter is changed from one substance into another. Physics is the study of the forms and properties of energy. Students perform laboratory activities throughout the course where appropriate.

**EARTH AND SPACE SCIENCE (9) (Class of 2028 and later)**

This class is an introduction to Earth Science. Emphasis will be on scientific methods, lab settings and critical thinking. Topics include: matter, rocks and minerals, plate tectonics, weathering and erosion, earth history, atmosphere and weather, oceans and water, astronomy and our impact on land.

**BIOLOGY (10)****YEAR**

Biology is the study of living things and their interactions with other living things and the environment. Major topics include evolution, genetics & heredity, and ecology. Students perform laboratory activities throughout the course where appropriate.

**GENERAL CHEMISTRY (11)****SEMESTER**

Chemistry provides students an opportunity to explore applications of chemistry and learn basic concepts in chemistry. Applications will focus on chemistry in the environment and carbon chemistry, including biochemistry.

**COLLEGE CHEMISTRY (11-12) (H, C)****SEMESTER**

Course deals with substances, their structures and properties, the changes they undergo and the laws that govern those changes. Intended for prospective elementary teachers, non-science majors and those who need background for General Chemistry. This course includes a lab.

**Prerequisite:** General Chemistry (with a grade of C or better) and must meet the college GPA requirement in order to obtain college credit.

**BIOLOGY II (12)****SEMESTER**

Biology is the study of living things and their interactions with other living things and the environment. Major topics include: General Characteristics of Living Things, Principles of Ecology, The Diversity of Life, and Human Biology. Students perform laboratory activities throughout the course where appropriate.

**COLLEGE HUMAN ANATOMY AND PHYSIOLOGY (11-12) (H,C)****SEMESTER**

This course is a comprehensive introductory overview of human anatomy and physiology that includes basic fundamental concepts of the organization of the body, histology, the integumentary system, the skeletal system, the muscular system, and the nervous system. This course is the first of a two-semester sequence in which anatomy and physiology are studied with an emphasis on the structures and functions of systems. This course consists of lecture and laboratory components, including several dissections.

**Prerequisite:** Must meet the college GPA requirement in order to obtain college credit.

**COLLEGE BIOLOGY I & II (11-12) (H, C)****YEAR**

Semester one of this course emphasizes cellular study including its basic organization, metabolic activities, cell structure, genetics, and heredity. Lab work involves biochemical activity, microscope work, and bacteria culturing. Semester two emphasizes the study of organisms, evolution & diversification, and ecology. Lab work involves animal dissection, organismal comparison, and fieldwork.

**COLLEGE FUNDAMENTAL CONCEPTS IN PHYSICS (11-12) (H, C)****SEMESTER**

This is a demonstration-based course that provides an introduction to selected topics in classical and modern physics. Topics will include measurement and significant digits, graphing, dimensional analysis, mechanics of motion, vibrations, waves, sound, electricity and magnetism, light and optics, atomic physics and atomic spectra, lasers and optical fibers, nuclear physics and radiation. The course uses active learning techniques with lab-like experiences. It uses many demonstrations and instructor-guided small group problem-solving activities. Simple algebra is used to ensure that students grasp the course concepts. This course is intended for all students but is especially designed for non-science majors who want an appreciation of and a limited working knowledge in some major areas of physics.

**Prerequisite:** Must meet the college GPA requirement in order to obtain college credit.

**Astronomy (Previously Earth and Space) (11-12)****SEMESTER**

This class will cover concepts dealing with our solar system, stars, and galaxies within the universe. The concepts would include the appearance of the night sky, constellation identification, planetary motion, physical properties of planets, the moon, sun and minor bodies. Also included into the curriculum would be the scale of the universe; distance, structure and evolution of stars; the Milky Way and other galaxies.

**MICROBIOLOGY (11-12)** (H)**SEMESTER**

Microbiology is a lab-oriented class in the study of microorganisms. The primary area of study is on bacteria, where the students learn a number of different microscopic techniques in the preparation of bacteria. Other areas studied are viruses, fungi, and protozoa. The class is primarily microscopic lab work. This course is particularly appropriate for anyone entering the field of study in the health sciences.

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**SOCIAL STUDIES****AMERICAN PROBLEMS (11-12)****SEMESTER**

This current events based class is a study of issues and problems in America today. We look at a wide array of current issues and events, many of which are issues that students feel they are interested in. This includes, but is not limited to, immigration, abuse, terrorism, health care, education policy, the impact of the media, and more.

**AMERICAN GOVERNMENT/ECONOMICS (12)****YEAR**

1 semester of American Government: This course consists of: the practical application or implementation of the Constitutional plan of government in the United States; a study of the executive, legislative, and judicial processes; American election procedures, amendments, the representative and democratic process, majority rule and minority rights; and the study of the system of guarantees, protection of the law and the rights of the citizen; and the exploration and application of political ideology.

1 semester of Economics: All countries and communities throughout history and the world today are faced with the same challenge: how to satisfy unlimited wants, with limited resources. This course is designed to show you what happens because this challenge exists, and the different methods that have been used to meet this challenge. This course is about decision making, and spending your resources in the right place. In addition, we will learn about other institutions and problems that arise as the basic economic questions are answered. If you use this information correctly, you will see the world in a different way, you will have a better understanding of how the world works, and you will have a head start on success.

**COLLEGE GENERAL PSYCHOLOGY (11-12)** (H, C)**SEMESTER**

This is a comprehensive introductory overview of psychology that studies human behavior and mental processes. Topics include research methods, the history of psychology, theories of human behavior, the physiological basis of behavior, sensation, perception, behavioral learning, memory, problem solving, language development, personality theory, intelligence, the influence of groups on the behavior of individuals and altered states of consciousness such as sleep and dreams.

**Prerequisites:** Must meet the college GPA requirement in order to obtain college credit.

**COLLEGE LIFESPAN DEVELOPMENT (DEVELOPMENTAL PSYCHOLOGY) (11-12)** (H, C)**SEMESTER**

This course is a study of the development from the life span perspective, including theories, stages and influences of development. The course views the individual from conception to death through physical, social, emotional and mental development. Topics include developmental theories, prenatal development, infancy, early childhood, middle childhood, adolescence, early adulthood, middle adulthood, late adulthood, and death and dying.

**Prerequisites:** College General Psychology; Must meet the college GPA requirement in order to obtain college credit.

**COLLEGE ABNORMAL PSYCHOLOGY (11-12)** (H, C)**SEMESTER**

This course is an introduction to the diagnosis, etiology and treatment of maladaptive behavior. The course will include historical and theoretical approaches, prevention and community resources. Course topics include: understanding abnormal behavior, research and ethics in abnormal psychology, etiology and treatment of mental disorders, anxiety disorders, obsessive compulsive disorder and stressor related disorders, somatic symptom disorders and dissociative disorders, mood disorders, eating and sleep disorders, substance-related and addictive disorders, sexual deviations and dysfunctions, schizophrenia spectrum and other psychotic disorders, personality disorders, childhood and adolescence disorders, neurocognitive disorders.

**Prerequisites:** College General Psychology; Must meet the college GPA requirement in order to obtain college credit.

**COLLEGE SOCIOLOGY (11-12)** (H, C)**SEMESTER**

This course stresses acquiring an enriched understanding of social issues and prospects for improving them. Students will investigate American culture and values, socialization and the different forces that teach us how to act in society, deviance and exploring why people are deviant, and social stratification and different economic levels of society. We will use different sociological theories and methods to help explain why large groups of people behave the way they do. This course will open your eyes to reasons behind the behaviors of people in America and around the world.

**Prerequisites:** Must meet the college GPA requirement in order to obtain college credit.

**REAL WORLD GEOGRAPHY I (11-12)****SEMESTER**

Geography is everywhere! The main objective of this course is to assist students in realizing that Geography is everywhere. The class will study Political, Population, Urban, Economic, Agricultural, Environmental, and Cultural Geography. We will study how these relate to the people and places around us. Topics to be studied: China, Conflicts around the World, Terrorism, Developing Countries, Cities, Census, The Population debate, Immigration, Migration, Refugees, and ever so challenging Geography trivia.

**HISTORY THROUGH FILM (11-12)****SEMESTER**

The purpose of this course is to show History (World and US) through Hollywood Films and Documentaries. The class will cover the following themes: Eastern Civilization, Western Civilization, Warfare, Role of Women, and Abuse of Power. The final project will be for you to create a legacy project which will include interviewing a relative and creating a film of your own. We will also explore the accuracy and inaccuracies of each of the films that we watch.

**SOCIAL STUDIES (9)****YEAR**

This course offers an opportunity for students to explore the early stages of United States History from exploration through roughly 1860 prior to the start of the Civil War. Some specific topics of study would include The First Americans, Age of Exploration, Thirteen Colonies, Revolutionary War, Creating a New Government/Country, Growth of our New Country, and Westward Expansion.

**U.S. HISTORY (10)****YEAR**

A thorough study of United States history from the causes of the Civil War to the present. This journey through United States history will be a process of exploring the hopes, ideas, and fears that have driven Americans from the past to the present. Topics studied include the Civil War and Reconstruction, Westward Expansion, Immigration, World War I, Roaring 20's, The Great Depression, World War II, Civil Rights Movement, Cold War, and the Vietnam Era. The goal of the class is to help students understand the past and apply historical information to America today.

**WORLD HISTORY/CAREERS (11)****YEAR****World History**

To understand how the world works, we must first try to understand the people in it. If we can understand how people live, and why they live the way they do; we may be able to understand how we can all live together. The study of world cultures is our attempt at understanding how other cultures of the world once lived, developed, and continue to live today. In this course we will analyze groups of people that have existed throughout history and relate their methods and accomplishments to our lives. Our goal is to learn about other cultures and recognize how we can connect that knowledge to events currently happening in our world.

**Careers**

During this unit students will have time to explore situations and opportunities that will arise after graduation. Students will: learn to set goals, identify strengths and weaknesses, analyze many occupations, explore training options after high school, research ways to obtain financial aid, and develop skills necessary for entering the workforce.

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# WORLD LANGUAGE

## **GERMAN I (9-12)** (ITV, H)

**YEAR**

This course introduces students to the basics of spoken and written German and students may obtain Honors Credit. The main focus of the course will be to develop conversational skills to allow communication on an elementary level with a native speaker about everyday subjects. We will study the culture of German-speaking countries and learn about similarities and differences with the hope of contributing to greater international understanding. Students will have the opportunity to host a German student from our partnership schools for one to two weeks.

## **GERMAN II (10-12)** (ITV, H)

**YEAR**

German II expands on the speaking skills learned in German I, adding practical skills like shopping, ordering food in a restaurant, and general skills needed to function in a German-speaking country. Students may obtain Honors Credit for this course. Students will be further exposed to the rich cultural heritage of German-speaking countries. Reading and writing skills will also be improved upon. Students will have the opportunity to host a German student from our partnership schools for one to two weeks. Juniors and seniors can apply to participate in the annual four week GAPP (German-American Partnership Program) Exchange to Germany upon recommendation from their teachers.

**Prerequisite:** German I (With a grade of C or better)

## **GERMAN III (11-12)** (H,C)

**YEAR**

This is a first year college level (as well as Honors Credit) course, which reviews the principles of grammar and syntax, and students will reinforce and further all skills of foreign language learning (Speaking, Writing, Reading, Listening). Viewing, discussing and writing about contemporary films will add to understanding of German culture. The option of hosting a German student from our partnership schools for one to two weeks is available. At the end of this course, students will receive four semester college credits from Central Lakes College.

**Prerequisite:** German II; Must meet the college GPA requirement in order to obtain college credit.

## **GERMAN IV (12)** (H,C)

**YEAR**

This college level (as well as Honors Credit) course will further develop mastery of the four skills - understanding through listening, reading, speaking, and writing. Students will read from modern and classical literature as well as from contemporary media. Successful completion of this class enables students to continue their German studies at the university level. Options of hosting and participating in the summer GAPP exchange study trip to Europe are available. At the end of this course, students will receive four semester college credits.

**Prerequisite:** German III; Must meet the college GPA requirement in order to obtain college credit.

## **SPANISH I (9-12)** (H)

**YEAR**

This course introduces the basics of spoken and written Spanish and students may earn Honors Credit. This course is a prerequisite in order to obtain college credits in Spanish III and/or IV. The main focus is to develop conversational skills that allow for communication on an elementary level with a native speaker about everyday subjects. We will study the 21 Spanish speaking countries and celebrate the cultures of Latin America and Spain.

## **SPANISH II (10-12)** (H)

**YEAR**

Spanish II expands on the speaking skills learned in Spanish I, adding practical skills like shopping, ordering food in a restaurant, and general skills needed to function in a Spanish-speaking country. Students may obtain Honors Credit for this course. This course is a prerequisite in order to earn college credits in Spanish III and/or IV. Students will be further exposed to the festivals and celebrations of Spanish-speaking countries. Reading and writing skills will also improve as students may now converse in the past tense.

**Prerequisite:** Spanish I (With a grade of C or better)

## **SPANISH III (11-12)** (H, C)

**YEAR**

This course offers four semester college credits from Central Lakes College and also qualifies as a Honors Credit. Students will be introduced to a more complex grammatical structure. The students will be able to apply their acquired knowledge through the use of short stories and skits that pertain to their everyday lives. The students will further their proficiency in communicative skills in cultural settings.

**Prerequisite:** Spanish II; Must meet the college GPA requirement in order to obtain college credit.

**SPANISH IV (12)** (H, C)

**YEAR**

This course offers four semester college credits from Central Lakes College and also qualifies as an Honors Credit. During this course students will increase their fluency in Spanish, including an intense review of grammatical principles. The main emphasis of the course will be proficiency. In this class, students will experience in depth the Spanish Culture. Upon successful completion of this class, students are able to pass a placement test into a higher level of University Spanish.

**Prerequisite:** Spanish III; Must meet the college GPA requirement in order to obtain college credit.