LAKEVIEW ACADEMY

"DEVELOPING THE SKILLS FOR COLLEGE AND LIFE THROUGH OUR HIGH SCHOOL COLLEGE EXPERIENCE"

Through the Lakeview Academy program, qualified seniors, juniors, and sophomores may apply for college courses through Lakeview Public Schools. Once you have been accepted you will have an entrance interview to begin your college experience. Our academy is made up of College Now, Project Lead the Way and PSEO Courses in which students will earn college credit. As you approach graduation you will complete an exit interview to make sure this experience has be resourceful. Please see below for the requirements for the Lakeview Academy:

- Seniors – must be in the upper half of your class.
- Juniors – must be in upper one third of your class
- Sophomores – must have met MCA requirements and top 10% of your class.

Lakeview Academy's College Now's Instructors through SMSU and the U of M:

Dan Hoffman – College Algebra, College Calculus and College Trigonometry (SMSU)
Project Lead the Way (U of M)

Josie Laleman – College Literature, College Composition, College Speech (SMSU)

Phil Lalim – College Spanish (SMSU)

Marcy Nuytten – College Psychology (SMSU)

Chris Sieling – College Probability and Statistics (SMSU)

Lakeview Academy's PSEO offerings:

Minnesota West
http://www.mnwest.edu/programs-courses/class-schedules

SMSU
http://www.smsu.edu/academics/pseo/index.html

For questions regarding a different Minnesota State College or University, please contact Shelley Buntjer, Lakeview School Counselor

Laker Academy Registration Form

Student: _____ **Grade:** ____

Email: _____

Phone: _____ **GPA/MCA:** ___

I understand by enrolling that I am responsible for the ollowing:

1. **To meet with Mrs. Buntjer to complete the entrance interview and all required forms.**
2. **Be open to course advice.**
3. **All courses contain academic rigorous pursuits.**
4. **Put together a plan of study for graduation requirements.**
5. **Add/drops must take place within the first ten days of the semester or they will result in an "F" on my high school transcript.**
6. **To provide Mr. Buntjer with grades by the end of each semester.**

Student Signature: _____ **Date:** _____

Parent Signature: _____ **Date:** _____

shelleybuntjer@lakeview2167.com

507-423-5164 ext. 1306

College Now Course Descriptions:

Psychology 101 (3 credits) – Marcy Nuytten

Primary objective of the course is to introduce you to the terms, methods, theories and findings of psychology. Topics include –personality, consciousness, memory, mental illness, stress and health, human development and learning. You will be taught the exact same curriculum as SMSU students receive on campus with the comfort of your Lakeview teacher. I will guide you to skills that will allow you success in any course. You will have the opportunity to learn how to take college level notes, take college level tests, college level critical thinking and problem solving.

Prerequisite: Psychology I

PLTW and College Mathematics - (26 Credits) - Dan Hoffman

On completion of PLTW classes to receive credit from the U of M. students must have 4 or higher on the end of course exam.

ARCHITECTURE (CEA/PLTW University of Minnesota)

Grade Level: 9-12

Course Length: Fall Semester/Modified Block Schedule

Prerequisite: None

This course can be taken for college credit through University of Minnesota. Must complete second semester to complete college credit. This course also satisfies .5 credits of the Technology requirement found in the Student Handbook.

The major focus of Architecture 1 is to expose students to the work of an Architect. Architects design and construct residential and commercial building projects, work in design teams, and draw with a Building Information Modeling (CADD) software. Students will design, draw, and construct models of a residential and commercial buildings. Taking this course give the students an opportunity to work hands on with technology used in today's field of Construction.

COMPUTER AIDED DRAFTING AND DESIGN (IED/PLTW)

Grade Level: 9-12

Course Length: Spring Semester/Modified Block Schedule

Prerequisite: None

This course can be taken for college credit through University of Minnesota. Must complete second semester to complete college credit. This course also satisfies .5 credits of the Technology requirement found in the Student Handbook.

This course teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed, and communicated using solid modeling computer design software. Students will print out drawings and turn them in to the instructor for credit. Drafting topics covered are basic drafting techniques, geometric construction, multi-view drawing, dimensions, sections, projections, tolerances, threads, fasteners, cams, and gears. Students will learn these objectives with project-based problems. Students will work collaboratively, create, and present solutions of a given problem. Students will have the opportunity to use the 3-D printer to create their prototypes to their solution.

DIGITAL ELECTRONICS (PLTW)

Course Length: Fall Semester/Modified Block Schedule

Prerequisite: None.

This course can be taken for college credit through University of Minnesota. Must complete second semester to complete college credit. This course also satisfies .5 credits per semester of the Technology requirement found in the Student Handbook.

Digital Electronics (DE) is the study of electronic circuits that are used to process and control digital signals. DE is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design. Students will analyze, design and build digital electronic circuits. One such circuit is the programmable logic controller (PLC), the 'brain' of a robot.

APPLIED PHYSICS (POE/PLTW) Grade Level: 10-12

Course Length: Spring Semester/Modified Block Schedule

Prerequisite: None

This course can be taken for college credit through University of Minnesota. Must complete second semester to complete college credit. This course also satisfies .5 credits per semester of the Technology requirement found in the Student Handbook.

The course exposes students to some of the major concepts that they will encounter in a postsecondary applied science or engineering course of study. The main topics are Mechanisms, Energy Sources, Energy Applications, Machine Control, Fluid Power, Statics, Material Properties, Material Testing, Statistics, and Kinematics. Every topic is explored through hands on project base learning such as building bridges, automated machine, and ballistics device.

COLLEGE ALGEBRA College Now Course

Grade Level: 11-12

Course Length: Semester I—Taken for 3 college credits

Prerequisite: Algebra 2 or equivalent

College Algebra is the foundational strand of mathematics. Its concepts are used in business, industry, science, engineering, and medicine. Students will experience the rigor of a college level course. The material is the same as seen on SMSU campus. This course meets five days a week, unlike a typical two or three days on a college campus. This gives an advantage for Lakeview students to cover the same amount of materials in more time than on a college campus. Students will have more one on one contact with the instructor to assist and help you learn the content.

COLLEGE TRIGONOMETRY College Now Course

Grade Level: 11-12

Course Length: Semester II –Taken for 3 college credits

Prerequisite: College Algebra

College Trigonometry covers concepts of right angle and circular trigonometry. Its concepts are used in business, industry, science, engineering, and medicine. This course is a prerequisite to College Calculus. Students will experience the rigor of a college level course. The material is the same as seen on SMSU campus. This course meets five days a week, unlike a typical two or three days on a college campus. This gives an advantage for Lakeview students to cover the same amount of materials in more time than on a college campus. Students will have more one on one contact with the instructor to assist and help you learn the content.

CALCULUS College Now Course

Grade Level: 12

Course Length: Year Long–Taken for 5 college credits

Prerequisite: College Trigonometry

Calculus is the mathematics of change. For example, calculus is the mathematics of velocities, acceleration, tangent lines, slopes, areas, volumes, arc lengths, centroids, curvatures, and a variety of other concepts that have enabled scientists, engineers, and economists to model real-life situations. Calculus concepts are used in business, industry, science, engineering, and medicine. Students will experience the rigor of a college level course. The material is the same as seen on SMSU campus. This course meets five days a week, unlike a typical two or three days on a college campus. Also, students will cover a college semester of material over the full school year. This gives an advantage for Lakeview students to cover the same amount of materials in more time than on a college campus. Students will have more one on one contact with the instructor to assist and help you learn the content.

Chris Sieling - Semester 2 (3 credits)

Math 200-Introduction to Statistics

Pre-req: Intro to Statistics (Sem1) or College Algebra

In this college statistics course students will learn how to evaluate flashy news headlines that begin with "in a recent study" so they can tell which ones are legitimate and which are not. The class will take a deep dive into designing studies and experiments while learning the implications of the design. Students will also learn to use the tools of statistics such as measures of center and spread, normal distribution, sampling, hypothesis testing and correlational analysis. These skills will transfer to many majors, career areas and life. Students will learn the exact same curriculum as SMSU students receive on campus, but will meet five times a week along with their fellow Lakeview students in the comfort of a Lakeview classroom.

Spanish 102 (6 credits) – Phil Lalim

Course Length: One year

The purpose of the class is to improve the language ability of the student. The advantage of taking it here at Lakeview vs at SMSU, is we meet every day. At SMSU they meet 5 days a week for one semester. We will cover the same material they do, but we will be able to extend it out over one year. We will be able to spend more time on concepts that are more challenging than you would at SMSU. We will use the same book as SMSU students.

Prerequisite: Spanish II (recommended passing with a C+ or higher)

Courses Taught by Mrs. Laleman

COMPOSITION I : College Now Course # 1103
Grade Level: 11– 12
Course Length: One Semester
Rotation: Fall
Taken for 3 college credits
This course will enable students to determine a writing purpose, generate ideas to support a topic, determine an audience, develop a focus, and organize a written text, beginning with more personal, or "reflective," writing and moving on to expository writing and argument. At least two papers will involve a research component through which students begin to learn the conventions of citation and documentation. Furthermore, the class will enable students to learn how purpose and audience affec the content, language, and form of a written text. Students must meet minimum writing objectives as determined in order to be placed into this course.

College Composition II -ENG 1102
Grade Level: 11 – 12
Course Length: One Semester
Rotation: Spring
Taken for 3 college credits

Composition assignments include a research paper. Prerequisite: English 1101 (Composition I)

LITERATURE 120 College Now Course # 1061
Grade Level: 11 – 12
Course Length: One Semester
Rotation: Fall
Taken for 3 college credits
This course will deepen students' understanding and appreciation of literature as an art form as well as to strengthen students' ability to read short stories, poems, novels, and drama for meaning.

College Composition: Technical Writing – ENGL 2276 3
Grade Level: 11 – 12
Course Length: One Semester
Rotation: Spring
Taken for 3 College Credits
Composition: Technical Writing provides instruction and experience in composition and editing various types of professional and technical writing. Assignments include a research paper. This course is an alternative for ENGL 1102 in the Minnesota Transfer Curriculum. Prerequisite: English 1101.

PUBLIC SPEAKING College Now Course # 1151
Grade Level: 11 – 12
Course Length: One Semester
Rotation: Fall
Taken for 3 college credits
Prerequisite: Juniors: Top 1/3 of the class
Seniors: Top ½ of the class / B Average
A skills course instructing the student how to design and deliver a speech. Active and critical listening are integral components the course.

Interpersonal Communications SPCH 1103
Grade Level: 11 – 12
Course Length: One Semester
Rotation: Spring
Taken for 3 college credits
Assists students in improving their one-on-one communication skills in their personal, social, and professional lives. Learners analyze the common variables of interpersonal communications and learn techniques to overcome barriers to effective communication. Prerequisite: STSK 0095 or evidence of college level reading ability through assessment test or prior college coursework.