



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 been 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)

Bill Palmer – College Economics (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**

*Serving the communities of Cottonwood & Wood Lake, Minnesota
Equal Opportunity Employer*

Laker Academy Registration Form

Student: _____ Grade: _____

Address: _____

Email: _____

Phone: _____ GPA/MCA: _____

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

- 1. To meet with Mrs. Buntjer to complete entrance interview and all required forms.**
- 2. Be open to course advisement.**
- 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.**
- 6. To meet with Mrs. Buntjer to complete exit interview.**

Student Signature: _____ Date: _____

Parent Signature: _____ Date: _____

shellybuntjer@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 is a 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)

Grade Level: 10-12

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 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.

Principles of Microeconomics SMSU Course - ECON 201 (3 credits) – Bill Palmer

Microeconomics investigates how individual consumers, firms, and markets allocate scarce resources among competing uses to meet people's needs and wants. We will use multimedia presentations, our textbook, and chapter reviews to accomplish these investigations. The primary course objective is to increase understanding of how markets work and enable students to explore topics such as capitalism, competition, monopolies, and public choice. The course is the same as that available to on-campus SMSU students with the additional benefit of access to a Lakeview instructor for any questions and access

to course teaching and exam review materials via Schoology.

Completing this course will help you:

- **Gain Increased Microeconomic Literacy** – understanding of our Market-Based economy
- **Gain Improved Analytical Skills** – organizing and applying information, logical thinking, and analytical problem solving
- **Become a Better Informed Citizen** – better able to ask meaningful questions about our personal economic decision making and about public policies and able to more effectively evaluate the costs and benefits of proposed decisions and projects

Spanish 102 (6 credits) – Phil Lalim

Course Length: One year

The purpose of the class is to improve the language ability of 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)

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.

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 affect 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 II builds on Composition I with emphasize on information literacy, critical thinking, and style development. 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 of 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.



The Following courses are taught on the MNWest Granite Falls college campus, with an online component. Students must have transportation and be able arrive for the 8:00 a.m. class start on designated days. Students should see Mrs. Buntjer for registration information.

Introduction to Medical and Health Careers - Fall 2019

Introduction to Medical and Health Careers provides students the opportunity to explore a wide variety careers in an assortment of medical/healthcare settings. The course is designed to provide students the chance to see if a career in medical/health science is right for them; and if they determine they have an interest, it can help them narrow down the possible careers they might consider. Students will participate in in-depth study and exposure to medical/health science careers, career planning, employability skills, basic terminology, ethics, wellness, disease and safety. Students may also be required, by participating health care organizations, to have up to date Mantoux tests and vaccinations.

Introduction to Manufacturing and Engineering – Fall 2019

This course is open to all students interested in discovering more about developing skills needed for a career in manufacturing or engineering. Concepts covered in this class will be production technologies and information to start on a high-performance manufacturing and/or engineering career pathway. Students will be given opportunities to develop important workplace knowledge and skills in the areas of safety, welding processes, precision machining, mechanical systems, fluid power, electrical controls, and automated systems.

Electrical Controls – Fall 2019

The Electrical Controls course will actually combine Electrical Controls I (2 credits - 48 Hours) and Electrical Controls II (3 credits - 80 Hours). The course will combine online academic work and supervised lab work on the MN West campus. Electrical Controls I introduces basic electrical concepts. Students will be introduced to electrical theory, analyze electrical safety hazards and requirements, and demonstrate electrical circuit wiring and measurement. Course will cover identification and application of electrical control components used in an industrial environment. Students will develop the introductory skills necessary for designing, wiring, troubleshooting, and operation of electrical control circuits. Electrical Controls II is an in depth analysis of electrical control circuits. This course includes the control of electromechanical devices, AC and DC motors, and solid state control devices. Electrical schematics are used to interpret logic and circuit function. Students will design, wire, and troubleshoot electromechanical and motor starter circuits using common industrial devices and components.

Information Technology Exploration - Fall 2019

This course is open to all students interested in discovering more about and developing skills needed for a career in Information Technology. Concepts covered in this class will include careers in information technology, system administration and networking, internet research, software and application development, information security concepts, social media, and business analytics and software.

Introduction to Residential Electrical/Plumbing/HVAC – Spring 2020

Residential Electrical, Plumbing & HVAC program introduces students in residential electrical, house wiring and industrial motor control. HVAC (Heating, Ventilation, Air Conditioning and Refrigeration) includes basic electrical, heating equipment installation, sheet metal fabrication and installation, air conditioning installation and refrigeration theory. Students will gain instruction to be able to move into trade-specific and advanced training to learn to design, adjust, repair, install and/or sell in areas related to electrical, plumbing, and HVAC. Instruction is delivered in a hands-on environment, working in small groups or independently, utilizing self-paced materials that offer a wide variety of activities. Students will visit a construction site, performing real job tasks related to their area of training. Co-op and work experience are integral to the program's training methods.

Nursing Assistant – Fall 2019 and Spring 2020

This course emphasizes the role of the nursing assistant and home health aide as a valuable member of any health care team. This course will introduce and prepare students for entry-level jobs in nursing home, hospitals, and other health care facilities. It also serves as an entry point for students interested in careers that require 2 and 4-year degrees. Upon successful completion of classroom/lab studies, the student will participate in a nursing home clinical experience caring for elderly clients. Clinicals will be scheduled during either the week or weekend in 6-hour blocks. Successful students will be eligible to take the Nurse Aide/Home Health Aide competency examination for certification and placement on the Minnesota Nursing Assistant Registry. The student will cover the \$180 fee for the test. Students can be reimbursed for the cost of the test when they become employed at a long-term care facility. Students may also be required by participating health care organizations to have up to date Mantoux tests and vaccinations.

Networking Basics - Spring 2020

The Networking Basics course will introduce students to computer networking, including maintenance, troubleshooting and setup of small networks. Students will build cables, learn networking theory, and explore existing network structures including the Internet. Students will setup, configure and test small networks. This is an excellent beginning course for future network administrators.

This course is part of the Information Technology certificate available from Minnesota West Community and Technical College and can be applied toward the Computer and Networking Technology Associate of Applied Science Degree.

The Network Basics course is primarily an online class and includes a maximum of three off campus visits, not including the job shadow portion of the class. This course includes videos, lessons, job shadows, interactive and hands-on labs. The student will spend approximately 4 hours per week on this class, not including job shadows or campus visits. This is an excellent opportunity for students to explore an exciting, growing and financially rewarding job in Information Technology as a Network administrator. Pay for this position is from \$55,000 to \$123,250 according to the Bureau of Labor Statistics in 2016. Demand for this type of work will continue to be in demand in the foreseeable future

Introduction to Education - Spring 2020

Have you ever thought about becoming a teacher? Do you like working with children? Are you wondering if you might like teaching as a career? This course offers an introduction to early childhood, elementary, and secondary education. Students will have the opportunity to examine their potential for the teaching profession. You will explore career opportunities, requirements, regulations, and professional ethics. The historical and social foundations of education, as well as schools in a diverse society, will be covered. You will also learn more about challenges and rewards faced by education professional, as well as what types of careers are available in education, in addition to teaching.

Industrial Construction Methods – Spring 2020

Industrial Construction Methods is a course in which students will learn skills and knowledge related to residential and commercial construction. Students will address a broad range of topics relevant to a challenging and constantly changing industry. The construction course content will prepare the student for entry-level employment or continue their education in a post-secondary program.

Tiny House/Fish House Construction – Spring 2020

Tiny houses are springing up all over the country -- from Vermont to Oregon to post-Katrina New Orleans -- as well as all over the media landscape. They can be affordable and energy efficient, reduce materials consumption, and cut our carbon footprint. In this intensive tiny house course, we shift back and forth between the design studio and the build site, engaging minds and bodies, as we explore design considerations and develop hands-on building skills. Students will also team up to develop and build a fish house for the winter months here in Minnesota. Teams will be touring local facilities and work with industry partners to finish both projects. Students will visit a construction site, performing real job tasks related to their area of training. Co-op and work experience are integral to the program's training methods.

Introduction to Traditional and Renewable Energy – Spring 2020

This course is designed to introduce students to various forms of energy stemming from both renewable and non-renewable sources. Students will study many sources of energy including solar thermal power, solar photovoltaics, bioenergy, hydroelectricity, tidal power, wind energy, wave energy, geothermal energy and fossil fuels. The First Law of Thermodynamics is studied, along with conversion and efficiency of various forms of energy. The economics, potential, and environmental impact will be covered for each topic. This course is an entry level course for various energy certification and diploma level careers.