If you enjoy working with numbers, math, and analyzing complex data...

- Applied Economics
- Astrophysics
- Bioproducts and Biosystems Engineering
- Chemical Engineering
- Computer Engineering
- Computer Science
- Economics
- Electrical Engineering
- Finance
- Materials Science and Engineering
- Mathematics
- Mechanical Engineering
- Statistics

If you enjoy communicating, teaching, and human interactions...

- Agricultural Communication and Marketing
- Agricultural and Food Business Management
- Kinesiology
- Nutrition
- Supply Chain and Operations Management
- Biology
- Chemistry
- Speech-Language-Hearing Sciences
- Psychology
- Nursing

If you enjoy being creative and outside-the-box thinking...

- Architecture
- Industrial and Systems Engineering
- Product Design
- Aerospace Engineering and Mechanics
- Civil Engineering
- Landscape Design and Planning
- Biomedical Engineering

The MAJOR KEY (majors.umn.edu) is a great tool to help you explore these options!
The University of Minnesota Twin Cities has lots of programs available for students who are interested in a stem-related major. For more information about these majors, please visit the Major Key at majors.umn.edu

Aerospace Engineering and Mechanics (CSE) – Ever-evolving field where graduates develop new technologies in biomedical and computer industries.

Agricultural Communication and Marketing (CFANS) – Combination of agricultural studies, business management and marketing, focusing on food science and industry, or crop and soil industries.

Agricultural Education (CFANS) – Prepare to teach agriscience, agribusiness, animal science, horticulture, food science, agricultural mechanics, and natural resource science.

Agriculture and Food Business Management (CFANS & CSOM) – Learn to solve management issues for food, agricultural, financial, and other industries. Balance between economics and business management, as well as applied science.

Animal Science (CFANS) – Learn about the care and management of farm animals, zoo animals, horses, pets or business within the animal industry.

Applied Economics (CFANS) – Gain a solid foundation in economics and learn how it is applied in the real world to improve people’s lives.

Architecture (Design) – Learn the art of design practice, drawing, digital design, and fabrication techniques in studios and workshops, and also the history and theory of architecture.

Astrophysics (CLA, CSE) – Study the physics of the universe along with interactions between objects in outer space, interpret data with mathematics and physical laws.

Biochemistry (CBS) – Focus studies on biosynthesis, metabolism, function, and regulation of molecules of life in order to understand disease.

Biology (CBS) – Understand the fundamental nature of living things, and cover the full range of life sciences, from cancer genes to marine mammals.

Biological, Science, & Environment (CLA) – Comprehensive biology training which also applies biology knowledge to topics like philosophy, sociology, geography, history and more.

Biomedical Engineering (CSE) – Study the fundamentals of biology, chemistry, physics, and mathematics to solve problems in the medical field.

Bioproducts and Biosystems Engineering (CFANS) – Design products and systems to meet the world’s growing needs for materials, energy, and food to address environmental sustainability.

Cellular and Organismal Physiology (CBS) – Study underlying physiological mechanisms in organisms ranging from microorganisms to large animals.

Chemical Engineering (CSE) – Chemically and physically transform matter to tackle some of the planet’s greatest challenges, such as energy resources, pollution control, and new medical therapies.

Chemistry (CLA, CSE) – Interact with nature on a fundamental, level, studying molecular structure, and the reactions that convert one material into another.

Civil Engineering (CSE) – Build the infrastructure of the world, including roads, bridges, buildings, water supply networks, sewage systems, pollution control facilities, and transportation hubs.

Computer Engineering (CSE) – Design, build, test, and install high-tech computing devices for everything from supercomputers to toys.

Computer Science (CLA, CSE) – Design computer software and hardware, apply computational techniques to other sciences, investigate social uses of computing, determine what programming language to use for a given problem, and advance new technologies such as artificial intelligence and robotics.

Earth Sciences (CLA, CSE) – An evolution of the field known as geology, studies fossils, volcanoes, tectonics, water flows, lakes, minerals and rocks of our planet from its origin to today.

Ecology, Evolution and Behavior (CBS) – Three related areas of biology build a foundation for success in various paths including graduate study, teaching, and entry-level scientist positions in wide range of sectors.

Economics (CLA) – Emphasizes critical thinking and the understanding of basic economic principles, prepping students for careers or graduate school.

Electrical Engineering (CSE) – Learn to generate technological advances that impact virtually every aspect of modern life.

Environmental Engineering (CSE) – Learn to design systems that resolve issues of environmental concern from wastewater treatment to protecting public health.

Environmental Geosciences (CSE) – Understand natural geologic processes and complete fieldwork to ensure the sustainability of our environment.

Environmental Sciences, Policy and Management (CFANS) – Interdisciplinary, major preps students to address complex environment and renewable resource issues.

Finance (CSOM) – Develop effective financial decision-making, and gain skills to assist in answering how to improve value, evaluate projects, measure risk, and understand markets.

Fisheries, Wildlife and Conservation Biology (CFANS) – Learn to research, plan and implement care and management plans for wildlife, fish, or aquatic resources.

Food Science (CFANS) – Apply chemistry, microbiology, and engineering to the science of making foods.

Food Systems (CFANS) – Learn the systems that feed the human population, encompassing biological, technological, economic, and social activities.

Forest and Natural Resource Management (CFANS) – Learn from a curriculum that covers the managerial, behavioral, and ecological sciences of our natural resources.

Genetics, Cell Biology and Development (CBS) – Focus on the mechanisms by which genetic information is used by cells to develop into complete organizations.

Geoengineering (CSE) – Plan, analyze, and design water and waste systems, tunnels, dams, and other facilities on or under the Earth’s surface.

Geography (CLA) – Explore the ways both human and non-human forces shape the world, through social, political, economic, and ecological processes.

Industrial and Systems Engineering (CSE) – Design, plan, and manage large-scale and complex systems including global supply chains, healthcare delivery systems, business and financial services, infrastructures.

Kinesiology (CEHD) – Study physical activity and human movement to prepare for careers in health science, fitness, sport, and wellness.

Landscape Design and Planning (Design) – Learn to respond to multiple environmental challenges using sustainable models of landscape design practice.

Management Information Systems (CSOM) – Learn to plan for, design, use, and manage the digital assets of an organization.

Materials Science and Engineering (CSE) – Understand the properties and origins of metals, ceramics, semiconductors, polymers, and composites, used in a wide range of industries.

Mathematics (CLA, CSE) – More than just numbers and formulas, understand how and why, and learn to solve complex real-world problems in diverse fields.

Mechanical Engineering (CSE) – Versatile degree encompasses energy, transportation, bioengineering, environmental engineering, medical device design, heating and cooling, fluid power, manufacturing and nanofabrication.

Microbiology (CBS) – Study the role of microbes such as bacteria, fungi, and viruses in our world and understand the impact on human health.

Neuroscience (CBS) – Study the building blocks of brain function in both animals and humans, as well as disease causing abnormalities.

Nursing (Nurs) – Learn the practices and procedures that ensure the health and safety of patients to prepare for a career in nursing.

Nutrition (CFANS) – Nutrition studies, dietetics, or nutritional science tracks explore how nutrients and foods aid the body in health, growth, and development.

Physics (CLA, CSE) – From the smallest subatomic particles to galaxies, explore the fundamental properties, laws, and structure of all forms of matter, living and non-living.

Physiology (CLA) – Based on chemistry, physics, mathematics, and biological science, focus on the functions of the human body from cells to organ systems.

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