Below is a list of courses currently offered through REACH. Any course offered at Minnesota West can be offered as a REACH course. Contact Kayla Westra (kayla.westra@mnwest.edu) for more information. Course descriptions can be found at: http://www.mnwest.edu/index.php/academics/course-descriptions

**AGRI 1110 Introduction to Horticulture 3 credits**
Emphasizes the growth process in production of fruits, vegetables, flowers, lawns, trees, and shrubs. Studies include planning, preparation and care of home grounds. Fundamental concepts in plant identification, growth, culture, landscape and design are also studied.

**AGRI 1115 Introduction to Shrimp Production 4 credits**
This course provides students with an introduction to shrimp production with an emphasis on fundamental concepts of physiology, nutrition, life cycle, and management in various production methods along with history, processing, and marketing of shrimp. By the end of the course, students will obtain a general understanding of modern shrimp production.

**ART 1115 Beginning Painting 3 credits**
Introduces traditional and contemporary painting techniques. Students will explore their own visual communication style. Students will learn processes for canvas preparation.

**ART 1124 Introduction to Ceramics 3 credits**
Creating clay objects using the potter's wheel and hand building techniques. Students also learn to operate a kiln and apply glaze finishes.

**BIOL 1110 Principles of Biology 4 credits**
Investigates fundamental principles of biology with special emphasis on the composition of living things and living systems, the chemistry of living things, natural selection, cell structure and function, metabolism emphasizing bioenergetics and biosynthesis, the cell cycle, and genetics. Prerequisite: STSK 0095 or evidence of college level reading ability through assessment test or prior college coursework.

**BIOL 1115 Human Biology 3 credits**
Covers some of the fundamental topics in biology, emphasizing the human. Students will explore the structure and function of healthy human body systems and investigate numerous abnormalities and disease states. Additional topics will include human development, aging, human genetics, DNA technology, genetic engineering, biotechnology, and ecological interactions. Prerequisite: STSK 0090 or evidence of college level reading ability through assessment test or prior college coursework.

**BIOL 2201 Human Anatomy 4 credits**
Covers structures of the body from the cellular to organ system level. Includes study of all structures of organ systems. Lecture and lab included. Prerequisite: BIOL 1110 or BIOL 1115 or consent of the instructor.

**BIOL 2202 Human Physiology 4 credits**
Introduces the functions of the organ systems of the human body. Laboratory experience will include tests and hands on practical lab experiments. Prerequisite: BIOL 2201.
BIOL 2245  Medical Terminology  2 credits
Provides students in any of the health science disciplines or pre-professional studies with working knowledge of the terminology used in the health professions. Prerequisite: STSK 0090 or evidence of college level reading ability through assessment test or prior college coursework.

BUS 1101  Introduction to Business  4 credits
Introduction to Business provides students with vital exposure to the major business functions in a dynamic free enterprise environment. Introduction to Business offers students relevant exposure to background information necessary to execute decision-making in a multitude of business specialties. Fundamentals of business are emphasized in an introduction to such areas as management, marketing, financing and information systems.

BUS 2105  Introduction to Entrepreneurship  2 credits
Presents information on starting a new business, developing a business plan, buying an existing business, and understanding the realities of the entrepreneurial lifestyle. Entrepreneurial issues involved in managing and growing an entrepreneurial venture will be covered in a separate class. This course is intended for all students at Minnesota West regardless of their major.

BUS 2297  Internship  2-8 credits
Offers students paid or unpaid work experience closely related to their academic and career pursuits. Activities are closely supervised by college instructors and on-the-job supervisors.

CHEM 1100  Introduction to Chemistry  3 credits
Covers the metric system, atomic structure, periodic law, formulas, nomenclature, chemical bonding, chemical equations, solutions, acids, bases, and a little nuclear chemistry. This course is designed for students who are not planning to major in the science field. It can be used as a stepping stone to get ready for CHEM 1101.

CHEM 1101  General Inorganic Chemistry I  4 credits
Introduces students to fundamental concepts of chemistry, equations and reactions, stoichiometry, the periodic table and properties, atomic structure, molecular orbitals, hybridization, gas laws, solutions, colloids and active metals. Prerequisite: High school Algebra or MATH 0099, or concurrent enrollment in MATH 0099 and high school Chemistry.

CHEM 1150  Survey of Chemistry  4 credits
Prepares students in pre-health science programs requiring one course of chemistry. The specific intent of the course is to provide the necessary chemistry background for students to proceed into introductory survey courses of such areas as biochemistry, microbiology, and physiology; as well as to furnish a broader and deeper basis for understanding the related techniques and problems in today's society. Selected topics given special emphasis are: state, properties and phase changes, acid-base concepts, use of pH, aqueous equilibria, families of carbon compounds, typical organic reactions, and macromolecules of biological importance.

EDUC 1100  Introduction to Education  3 credits
Introduces students to early childhood, elementary and secondary education. Students will have the opportunity to examine their potential for the teaching profession. This course examines career opportunities, requirements, regulations, and professional ethics. The study of historical and social foundations of education, as well as schools in a diverse society will be included in the course. Twenty (20) hours of field experience is included. Prerequisite: Department of Human Services background study will be conducted.

EDUC 1102  Technology: Classroom Applications and Portfolio Development  3 credits
Covers classroom applications of technology, and portfolio development.
EMS 1112  AHA CPR Healthcare Provider, AED First Aid Certification  1 credit
Covers the skills necessary for the newest AHA Guidelines for the CPR Healthcare Provider Certification as well as
Certification in Automated External Defibrillation and First Aid. The provider will be able to properly and safely
assess a patient, as well as how to recognize signs and symptoms and administering the appropriate treatments.

ENGL 1101  Composition I  3 credits
Reviews and reinforces basic essay writing principles. Emphasis is on rhetorical modes of development and writing
as process. Assignments include a short research paper. Prerequisite: ENGL 0090 or placement through
assessment test or prior college coursework.

ENGL 1102  Composition II  3 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.

ENGL 1105  Introduction to Literature  3 credits
Studies the elements, form, and content of fiction, drama and poetry.

ENGL 2231  Classical Mythology  2 credits
Introduces students to Greek mythology through classical texts and contemporary criticism. In addition to
studying the myths themselves, lectures will focus on the functions of myths and the continuing importance of
Greek mythology in modern society.

ENGL 2276  Composition: Technical Writing  3 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.

GEOG 1100  Introduction to Geography  3 credits
Introduction to Geography introduces various aspects of Geography. Emphasis will be given to cartography,
meterology, climatic elements, political, and population geography. Place-location is also covered. Prerequisite:
STSK 0090 or evidence of college level reading ability through assessment test or prior college coursework.

HC 1120  Introduction to Healthcare Careers  3 credits
Provide students the opportunity to explore a wide variety of career options, provide basic knowledge and skills,
and develop an awareness of workplace expectations. 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.

HC 1151  Body Structure & Function  3 credits
Introduces the study of human anatomy and physiology. A study of body organization, chemistry, cells and tissues
leads into exploring the normal structure and function of each body system. Emphasis is also placed on
terminology and abbreviations.

HIST 1101  American History I  4 credits
Presents a survey of United States history from about 1500 to 1865 and encompasses political, economic, social,
intellectual and cultural developments. Human diversity in the historical and cultural context of American history is
also addressed. Prerequisite: STSK 0095 or evidence of college level reading ability through assessment test or prior
coursework.

HIST 1102  American History II  4 credits
Presents a survey of United States history from about 1865 to the present and encompasses political, economic,
social, intellectual and cultural developments. Human diversity in the historical and cultural context of American
history is also addressed. Prerequisite: STSK 0095 or evidence of college level reading ability through assessment test or prior college coursework.

**HIST 1111  Western Civilization I  3 credits**
Surveys European history from ancient times to the 1500s and encompasses political, economic, social, intellectual and cultural developments. This course may be taken for either Global Perspective or Humanities credit. Prerequisite: STSK 0095 or evidence of college level reading ability through assessment test or prior college coursework.

**HIST 1112  Western Civilization II  3 credits**
Surveys European history from the 1500s to the present and encompasses political, economic, social, intellectual and cultural developments. The course may be taken for either Global Perspective or Humanities credit. Prerequisite: STSK 0095 or evidence of college level reading ability through assessment test or prior college coursework.

**HIST 1121  World History I  3 credits**
Includes a global and cross-cultural study of the early period of world history, including ancient civilizations. Empires and regions examined include ancient India, China, Greece, Egypt, Rome, the Americas, Africa, Southeast Asia, Japan, Medieval Europe and include the interactions of these civilizations. The study will include the emergence of the major world religions and their influence in the world cultures and civilizations. (Buddhism, Christianity, Judaism, Islam, and Hinduism). Prerequisite: STSK 0095 or evidence of college level reading ability through assessment test or prior college coursework.

**HIST 1122  World History II  3 credits**
Includes a global and cross-cultural study of the modern period of world history from 1500 to the present. Topics include the influence of European expansionism and colonialism, interaction of nations and peoples, reform and change in religious pattern, and the development and spread of the Industrial revolution, Marxism, Communism, Constitutional monarchies, Representative democracies, global rearrangements or the twentieth century, decline of European colonialism, and contemporary conditions. Prerequisite: STSK 0095 or evidence of college level reading ability through assessment test or prior college coursework.

**HLTH 2240  Basic Nutrition  3 credits**
Introduces the study of food and human dietary patterns. Examines sources of nutrients, how they are processed in the body, body composition, current dietary guidelines and nutritional issues, the impact of socio-cultural factors on diet, and the impact of dietary choices on health. Prerequisite: STSK 0095 or evidence of college level reading ability through assessment test or prior college coursework.

**MATH 1105  Introduction to Probability and Statistics  4 credits**
Introduces the measures of central tendency, measures of dispersion, frequency distributions, probability, sampling distributions and the central limit theorem, testing of hypotheses, analysis of variance, linear regression and correlation analysis. Prerequisite: Two years of high school algebra, MATH 0099, or placement by exam.

**MATH 1111  College Algebra  3 credits**
Reviews the fundamental operations of higher algebra integrated with a functions approach. Studies polynomial, exponential, and logarithmic functions, graphs and transformations, systems of equalities and inequalities, matrices and determinants, problem solving applications and data modeling techniques. Prerequisite: Two years of high school algebra, MATH 0099, or placement by exam.

**MATH 1113  Pre-Calculus  4 credits**
Reviews the concepts functions of college algebra and then extends those ideas to trigonometry and analytic geometry. Exponential, logarithmic, and polynomial functions are emphasized in the review. The course explores rectangular coordinates and angles, solutions of right triangles, unit circles, radian measure, trigonometric functions and their inverse, trigonometric graphs, trigonometric equations and identities, complex numbers, conic
sections, and other analytic geometry topics such as polar coordinates, parametric equations, sums and geometric series, and vectors. Prerequisite: MATH 1111 or placement by exam.

**MATH 1121 Calculus I 4 credits**
Introduces the basic ideas of differential and integral calculus: topics include limits and continuity, differentiation of functions, applications of derivatives, definite and indefinite integrals, the fundamental theorems of integral calculus, numerical integration, and applications of definite integrals. Prerequisite: Four years of high school mathematics, MATH 1113, or placement by exam.

**PHYS 1100 Survey of Physics 3 credits**
Includes a general survey of conceptual physics. Topics include a basic introduction to Newton's Laws of motion, gravity, physical mechanics, properties of matter, heat, sound, electricity, magnetism, light and nuclear physics. This is mainly a lab activity course for students who have not had high school physics. Prerequisite: High school algebra I or MATH 0098 or higher.

**PHYS 1201 Fundamentals of Physics I 4 credits**
Develops a foundation for future studies in fields not requiring the calculus. Laboratory and lecture based instruction using both calculator and computer based instruction. Develops a foundation in physics for liberal arts, premedical, or pre-pharmacy students. Topics studied include one and two-dimensional motion, forces and acceleration, applications of Newton's Laws, momentum, gravitation, collisions, work and energy, rotational motion, and angular momentum, harmonic motion and sound. Prerequisite: MATH 0099 or higher.

**PHYS 1202 Fundamentals of Physics II 4 credits**
Covers topics including temperature and heat transfer, laws of thermodynamics and heat engines, electric fields, electricity of direct current circuits, electronics magnetism and radioactivity. Prerequisite: PHYS 1201 or consent of instructor.

**PSCI 1101 Introduction to Political Science 3 credits**
Acquaints students with the fundamental concepts, institutions, principles and procedures of the discipline of political science. The course will provide a brief background in classical political theory through some exposure to the ideas of past political philosophers (such as Aristotle, Machiavelli, Hobbes, Locke, Marx and others). The course also introduces the study of comparative systems through consideration of the governments of Great Britain, France, and Canada. PSCI 1101 is viewed as a general introductory course. The course also counts as a Global Perspective course. Prerequisite: STSK 0095 or evidence of college level reading ability through assessment test or prior college coursework.

**PSCI 1201 American Government and Politics 3 credits**
Presents a general survey of the history, philosophy, functions and performance of American national political institutions and processes. This course also emphasizes ethical and civic responsibility. Prerequisite: STSK 0090 or evidence of college level reading ability through assessment test or prior college coursework.

**PSYC 1101 Introduction to Psychology 4 credits**
Provides an overview of contemporary psychology. Topics include the biological bases of behavior, sensation and perception, motivation, learning, memory, development, personality theory and disorders. Emphasis is given to biological, ability, age, gender, personality, and ethnic diversity. This course is a prerequisite for all other psychology courses. Required course for many degree programs. Prerequisite: STSK 0095 or evidence of college level reading ability through assessment test or prior college coursework.

**SOC 1101 Introduction to Sociology 3 credits**
Introduces the student to basic sociological concepts. Topics include: sociological theory, research, culture, socialization, groups, social stratification, social class, gender, race, and family. Prerequisite: STSK 0095 or evidence of college level reading ability through assessment test or prior college coursework.
SPAN 1101  Spanish I  4 credits
Assists students in developing proficiency in listening, speaking, reading and writing Spanish, mastering fundamental grammatical concepts, and integrating the culture of the Spanish-speaking world. The course is designed for students with little or no prior language study. Prerequisite: STSK 0090 or evidence of college level reading ability through assessment test or prior college coursework.

SPCH 1101  Introduction to Speech  3 credits
Focuses on elementary speech training aimed at public speaking, extemporaneous speaking, and impromptu speaking. Course emphasizes delivery techniques, audience analysis, research, organization, clearness of statement, and logical thinking.

SPCH 1103  Interpersonal Communications  3 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.

STSK 1110  Freshman Seminar  1 credit
Enhances the student’s adjustment and success with the college experience. The Freshman Seminar course provides first-year students with a general orientation and introduction to resources and skills helpful in the transition to college life and to assist in long term academic and personal success. It is designed to facilitate a successful college experience. Students will develop college-level study skills and will learn about college resources to assist them in their personal and academic adjustment to college life. Strategies for a successful college experience, including: time management, studying smart, taking notes from lecture and textbooks, writing, test taking techniques, stress management, learning teaching styles, preparing speeches, introduction to online learning, navigating D2L and ITV/distance learning will be covered.

STSK 1135  Digital Literacy  2 credits
Introduces students to the basic elements of Digital Literacy as they develop the technology proficiency, information literacy, and media literacy necessary for safe use of digital technologies vital for success in post-secondary settings as well as the 21st Century workforce. Prerequisite: Students will need to have access to a reliable Internet connection and access to a device which will enable them to use various technologies.