

Course Name, Prerequisites & Course Descriptions

Course outlines are linked below and [available on our website](#).

Course #	Credit #	Course Name MnTC Goals	Prerequisite	Course Description
BIOL 1201	4 (3 lecture, 1 lab)	Introduction to Biology Goals 3 and 10	None	Introduction to Biology will serve as an overview of the principles and theories that drive the study of biology. Students will be exposed to several different disciplines within biology, including but not limited to, molecular and cell biology, genetics, evolutionary biology, and ecology. An emphasis will be placed on relationships between biology and current issues of particular interest to students.
BIOL 1226	3	Nutrition Goals 2 and 3	None	This course covers basic principles of nutrition and their relationship to human health and normal biological function. Students are exposed to current trends in nutrition, behaviors typical of a positive nutritional lifestyle, and a lab like experience to evaluate their own nutritional status. Topics covered include an introduction to the nutrients, digestive function and metabolism, the role of physical activity, dietary standards, proper diet planning, and nutrition related diseases.
BIOL 2515	4 (3 lecture, 1 lab)	Anatomy & Physiology I Goals 2 and 3	BIOL 1200 – Human Biology OR Grade of B or better in High School Biology 10.	Human Anatomy and Physiology I introduces the structure and function of the human body with an emphasis on normal health. This course includes a review of cellular biology, cellular transport, cell reproduction and basic biochemistry. Topics covered include tissues, the integumentary system, skeletal system, articulations, muscular system, and nervous system.

BIOL 2516	4 (3 lecture, 1 lab)	Anatomy & Physiology II Goals 2 and 3	BIOL 2515 – Anatomy & Physiology I	Human Anatomy and Physiology II continues the study of the human body from Human Anatomy and Physiology I. This course includes principles of chemistry, biochemistry, and molecular biology as they relate to the study of normal body function. Topics covered include the endocrine system, cardiovascular system, immune system, respiratory system, urinary system, digestive system, and reproductive systems.
BUSN 2215	3	Business Ethics No Goal Areas	None	A study of ethical problems in business and the foundations for decisions involving ethical issues. Topics include ethical concepts, personal integrity, individual conscience, and company loyalty and responsibility conflicts as they impact on the decision process in the functional areas of business.
BUSN 2220	3	Principles of Management No Goal Areas	None	This course provides a survey of the traditional functions of management with primary emphasis on planning, organizing, controlling, and leading. This emphasis involves coverage of managerial decision making, leadership, motivation, interpersonal communication, staffing human resources, and organizational structure, design, and change and development. Additional topics include the history of managerial thought, management information systems, international management, and business ethics and social responsibility.
CARP 1100	2	Cabinetry I No Goal Areas	None	The student will explore styles, make working drawings, plan for efficiency, develop a building plan, layout cabinets, and estimate materials for a variety of cabinets.
CARP 1105	2	Residential Construction I No Goal Areas	None	This course will cover common residential framing methods including floor systems, wall framing and sheeting, roof types, interior framing details and wall layout.

CHEM 1110	4 (3 lecture, 1 lab)	Survey of Chemistry Goal 3	2.8 HS GPA and recent High School Advanced Algebra or Algebra 2 with a “C” average, or: • Accuplacer College Level Math score of 50+ • ACT Math score of 22+ • MCA Math score of 1158+ • SAT Math Composite score of 530+	As a one-semester introduction to the field of chemistry this course is designed to allow students to understand how chemistry relates to everyday life by looking at classification of matter, reactivity, solutions, and organic compounds. This course is intended for students with no recent chemistry background who intend to take the General, Organic and Biochemistry or other General chemistry courses.
CHEM 2518	4 (3 lecture, 1 lab)	General, Organic, and Biochemistry I Goals 2 and 3	CHEM 1010 – Fundamentals of Chemistry OR CHEM 1110 – Survey of Chemistry	This course is intended as a broad introduction to the basic principles of general, organic and biochemistry. Atomic structure, radioactivity, ionic and covalent compounds, reactions, oxidation-reduction, solutions, acids and base are covered through descriptive, theoretical and laboratory topics. These principles are related to organic and biological chemistry throughout the course as it is foundation course for students enrolled in the health-related programs. However, this course is open to all students enrolled in any program.
CMAE 1510	2	Print Reading No Goal Areas	None	This course will give students an understanding of basic mechanical drawing principles. Topics include the alphabet of lines, arrangement of views, orthographic projections, scaling, dimensioning, tolerancing, and symbols. Students will read and interpret mechanical drawings.
COMM 1218	3	College Speech Goal 1	None	Students develop interpersonal, small group, and public speaking skills as well as an understanding of basic communication principles.
ENGL 1165	3	Introduction to Literature Goals 6 and 7	2.6 High School GPA required. If High School GPA is not eligible, a score of 18+ on the ACT English or an Accuplacer Next Gen Reading score of 250+ can be used.	This course will serve to introduce the student to various aspects of literature, including its genres (fiction, poetry, creative nonfiction, and/or drama), its formal aesthetic elements (e.g. plot, metaphor, point of view, etc.), and its communication of ideas as they relate to the human condition.

ENGL 1215	3	College Writing I Goal 1	2.6 High School GPA required. If High School GPA is not eligible, a score of 18+ on the ACT English or an Accuplacer Next Gen Reading score of 250+ can be used.	This course involves expository writing based on experience, direct observation, research and reading with emphasis on critical thinking skills, rhetorical strategies, and style.
ENGL 1265	3	Multicultural Literature Goals 6 and 7	2.6 High School GPA required. If High School GPA is not eligible, a score of 18+ on the ACT English or an Accuplacer Next Gen Reading score of 250+ can be used.	This course will examine the diversity of North American culture through a varied body of literature produced by members of specific minority cultures within North America. The literature may include, but is not limited to, novels, short stories, memoirs, poetry, creative nonfiction, drama, and oral tradition.
ENGL 1365	3	Survey of British Literature Goals 6 and 8	2.6 High School GPA required. If High School GPA is not eligible, a score of 18+ on the ACT English or an Accuplacer Next Gen Reading score of 250+ can be used.	This course will focus on the major periods, authors, and canonical works of British literature during the years 1500 to 1850. Readings will include works of poetry, drama, and fiction from the time period.
ENGL 1445	3	Introduction to Creative Writing Goals 1 and 6	2.6 High School GPA required. If High School GPA is not eligible, a score of 18+ on the ACT English or an Accuplacer Next Gen Reading score of 250+ can be used.	This course will serve to introduce the student to the practice of creative writing, specifically to the techniques involved in writing poetry and short fiction. In addition to writing their own poems and stories, students will read and discuss a number of contemporary examples in these genres.

ENGL 2515	3	College Writing II Goals 1 and 2	2.6 High School GPA required. If High School GPA is not eligible, a score of 18+ on the ACT English or an Accuplacer Next Gen Reading score of 250+ can be used.	Reading critically and writing persuasively from multiple sources is emphasized. Students will evaluate the stylistic, structural and substantive merits of what they read; they will analyze and synthesize various points of view, develop interpretive skills, and employ various critical stances and techniques. Students must write at least one research paper substantially based on the reading of at least one book-length text (assigned to the whole class by the instructor). The text may be fictional, non-fictional, dramatic, or poetic. Students will write at least three academic essays of analysis and/or synthesis.
HIST 1108	3	US History to 1865 Goals 5 and 7	None	HIST 1108 is a history of the political, social, economic, and cultural history of the United States to 1865. This class will discuss the development of the United States and the interactions of different peoples and groups. Even more importantly, this course will offer historical perspectives into the formation of today's society as we discuss how political, social, economic, cultural, and technological changes have impacted both the past and the present.
HIST 1110	3	US History 1865 to Present Goals 5 and 7	None	The objectives for this course will be to give the student a broader and deeper understanding of American history from the end of the Civil War in 1865 to the present day. Even more importantly, this course will offer historical perspectives into the formation of today's society as we discuss how political, social, economic, cultural, and technological changes have impacted both the past and the present.
HLTH 1098	3	Certified Nursing Assistant No Goal Area	None	This 80-hour, 3 credit course develops skills, attitudes and knowledge essential for direct and supportive care in long-term care facilities. Class meets OBRA requirements and MN Board of Nursing standards. Skills are demonstrated in supervised laboratory setting. This is a prerequisite for incoming PN students. Note: Dependent on which location you choose, the labs will be done at that campus.

MATH 1220	3	College Algebra Goal 4	2.8 HS GPA and recent High School Advanced Algebra or Algebra 2 with a “C” average, or: • Accuplacer College Level Math score of 50+ • ACT Math score of 22+ • MCA Math score of 1158+ • SAT Math Composite score of 530+	This course covers functions, graphs, exponents and logarithms, inequalities, application problems, matrices and determinants, sequences and series, and the binomial theorem.
MATH 1225	3	Pre-Calculus Goal 4	2.8 HS GPA and recent High School Advanced Algebra or Algebra 2 with a “C” average, or: • Accuplacer College Level Math score of 50+ • ACT Math score of 22+ • MCA Math score of 1158+ • SAT Math Composite score of 530+	Pre-calculus is designed to increase students' knowledge about mathematical and logical modes of thinking and will provide students the skills necessary for the successful completion of calculus. Topics include polynomials and rational functions; exponential and logarithmic functions; trigonometric functions of real numbers and angles; analytical trigonometry; polar coordinates and vectors; and sequences and series. Pre-calculus is a Minnesota Transfer Level Course.
MATH 1230	3	Introduction to Statistics Goal 4	2.8 HS GPA and recent High School Advanced Algebra or Algebra 2 with a “C” average, or: • Accuplacer College Level Math score of 50+ • ACT Math score of 22+ • MCA Math score of 1158+ • SAT Math Composite score of 530+	This course emphasizes the concepts and methods of statistics. Statistics is the study of how to collect, organize, analyze, and interpret numerical information from data. Statistical methods will be presented with a focus on understanding both the suitability of the method and the meaning of the result. Statistical methods and measurements will be studied in the context of a broad range of practical applications that require decision making.
MATH 2440	3	Calculus I Goal 4	MATH 1225 – Pre-Calculus OR MATH 1220 – College Algebra	Differential and integral calculus of functions of a single variable.

MECH 1202	2	DC Electricity No Goal Area	None	This course covers the general information, theory, and problem-solving techniques required for an analysis of DC circuits with emphasis on taking meter measurements, current flow, voltage division, and troubleshooting failed parts.
MECH 1204	2	AC Electricity No Goal Area	None	In this course, students will gain general information, theory, and problem-solving techniques required for an analysis of AC circuits with an explicit focus on how AC functions within Industry. Topics include: AC waveforms, oscilloscope operation, meter measurements, AC vs. DC comparisons, 3 phase electricity for delta and wye circuits, step-up and step-down transformers as well as their specific application.
PSYC 1110	3	Introduction to Psychology Goals 5 and 7	None	Psychology applies to everyone's personal and workplace daily life. In this course, you will be introduced to the history of psychology, consciousness, learning theories, memory, problem-solving, intelligence, motivation, life-span development, personality, abnormal psychology and therapy.
PSYCH 1115	3	Lifespan Psychology Goals 5 and 7	None	Students will explore theories of human development to understand the connections and relationships of stages of growth from conception to late adulthood. Genetics; prenatal development and birth; physical, cognitive and psychosocial development from birth through late adulthood; and dying, death, and bereavement will be examined.