Minnesota State College Southeast Concurrent Enrollment Courses

Course Name, Prerequisites & Course Descriptions

Course #	Credit #	Course Name MnTC Goals	Prerequisite	Course Description
BIOL 2515	4	Anatomy & Physiology I Goals 2 & 3	Recent High School Biology	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	Anatomy & Physiology II Goals 2 & 3	Successful completion of BIOL2515 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.
BIOL 1226	3	Nutrition Goals 2 & 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 nutrients, digestive function and metabolism, the role of physical activity, dietary standards, proper diet planning and nutrition related diseases.

CHEM 2518	4	GOB Goals 2 & 3	Recent High School 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 bases are covered through descriptive, theoretical, and laboratory topics. These principles are related to organic and biological chemistry throughout the course as it is a foundational course for students enrolled in the health related programs.
CHEM 1225	3	Introduction to Forensic Science Goals 3 & 9	None	This chemistry course will explore the scientific bases and background for crime-scene investigations. Students will explore the entire field of forensic science, including the different kinds of physical evidence, current technologies and techniques used to examine evidence, interpretation of results from a variety of forensic-laboratory analyses, and the ethical implications of using forensic data in a case. Students will perform several laboratory experiments to learn some data analysis techniques.
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 1215	3	College Writing I Goal 1	A minimum score of 78 on the Reading Comprehension portion of the ACCUPLACER basic skills test or a minimum score of 250 in the reading portion of the Next Gen Accuplacer or a minimum score of 18 on the English subject area of the ACT test or a minimum score of 1047 on the MCA reading test or successful completion of ENGL0528)	This course involves expository writing based on experience, direct observation, research and reading with emphasis on critical thinking skills, rhetorical strategies, and style.
ENGL 2525	3	College Writing II Goal 1	"C" or better in ENGL1215 College Writing I, or equivalent course transfer	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.
ENGL 1165	3	Introduction to Literature Goals 6 & 7	A minimum score of 78 in the Reading Comprehension portion of the ACCUPLACER basic skills test or a minimum score of 250 in the reading portion of the Next Gen Accuplacer or a minimum score of 21 in the Reading Subject area of the ACT test or a minimum score of 1047 on the MCA reading test or successful completion of ENGL0528	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.
HIST 1228	3	World Civilization to 1500 Goals 5 & 8	None	This course is a history of the political, social, economic, and cultural history of the world to 1500 C.E. This class will discuss the development of the world's civilizations and the interactions of different peoples and societies.
HIST 1230	3	World Civilization from 1500 CE to Present Goals 5 & 8	None	This course is a history of the political, social, economic, and cultural history of the world from 1500 C.E. to present. This class will discuss the development of the world's civilizations and the interactions of different peoples and societies. This class will look at how the worlds history has shaped not only our own history but also how the world has moved toward a more interdependent present.
MATH 1220	3	College Algebra Goal 4	A minimum score of 50 in the college level math section of the ACCUPLACER basic skills test or a minimum score of 250 in the Advanced Algebra section of the Next Gen Accuplacer or a minimum score of 22 on the math subject area of the ACT test or a minimum score of a 1158 on the MCA Math test or successful completion of MATH1025	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	A minimum score of 50 in the college level math section of the ACCUPLACER basic skills test or a minimum score of 250 in the Advanced Algebra section of the Next Gen Accuplacer or a minimum score of 22 on the math subject area of the ACT test or a minimum score of a 1158 on the MCA Math test or successful completion of MATH1025	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.
MATH 1230	3	Introduction to Statistics Goal 4	A minimum score of 50 in the college level math section of the ACCUPLACER basic skills test or a minimum score of 250 in the Advanced Algebra section of the Next Gen Accuplacer or a minimum score of 22 on the math subject area of the ACT test or a minimum score of 1148 on the MCA Math test or successful completion of MATH1025 or MATH1020 or MATH1015	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	4	Calculus I Goal 4	"C" or better in MATH1225 Pre-Calculus or MATH1220 College Algebra, or equivalent course transfer	Differential and integral calculus of functions of a single variable.
MEDS 1210	4	Medical Terminology	None	This course covers word analysis by the study of word roots, prefixes, suffixes, and abbreviations common to the medical profession. Comprehension is expected concerning combining word parts and recognizing the meaning of the new term.
PSYC 1110	3	Introduction to Psychology Goals 5 & 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.

SOCS 1110	3	Introduction to Sociology Goals 5 & 7	None	The purpose of this course is to develop in students an understanding of basic sociological issues, concepts, terminology, and applications of these understandings with current societal events. Students will become conscious of societal influences in relationship to human and cultural dynamics in our world. This course will call for the development of reflective and critical thinking skills.
SPAN 1230	3	Introduction to Hispanic Cultures Goals 6 & 8	None	Taught in English, Intro to Hispanic Cultures will acquaint the students with the concepts of culture and cultural identity, and bring them an awareness of the skills necessary to achieve successful cross-cultural communication, especially as it pertains to work with Hispanic clients. Students will compare and contrast their own culture with that of Spanish-speaking peoples. The course will also look at the "high" culture and civilization of Spanish-speaking countries, examining the arts, history, architecture, and literature.