

## **FDLTCC CITS Courses Offered**

### **ACCT 2001 Financial Accounting I 3 credits**

Accounting is the language of business. It is a means of communicating financial information to external parties through the balance sheet and the income statement. This course focuses on the process of how to record, classify, measure, and report business and small business data.

### **ANSH 1001 Introduction to Anishinaabe Language 4 credits**

This course will introduce students to the Anishinaabe language. Conversational and writing skills will be learned, leading to an oral presentation. Analysis of sentence structure will be utilized in attaining an understanding of the complexity and beauty of the Anishinaabe language. Students will write and speak simple sentences.

### **ART 1030 Painting I 3 credits (1 lecture, 2 lab)**

Provides an introduction to the principle elements of painting and color theory. The instructor will guide students through explorations of acrylic painting mediums, brush technique, and composition.

### **ART 1095 Digital Photography 3 credits (1 lecture, 2 lab)**

An introductory course in digital photography and image editing. The basic ideas of photography will be examined such as cropping, color, content and scale, as well as the basic tools of image editing including adjusting images, working with colors, layers, saving and printing images.

### **ART/CSCI 1097 Introduction to Digital Graphics 3 credits (1 lecture, 2 lab)**

This course will introduce students to computer technologies that apply specifically to graphic design and the production of digital art works. Use of computer software for design lay-out and creation of two-dimensional digital imagery will be emphasized. Students enrolling in this class must have basic understanding of computer functions and applications.

### **BIOL 1005 Medical Terminology 1 credit**

A self-contained, on-line tutorial program designed to enhance basic word attack skills and medical vocabulary for students and workers in the allied health sciences. This course will provide a foundation of basic medical terms, which are created by adding prefixes and suffixes to root words. The course will include terminology used in anatomy and physiology, body systems and appropriate abbreviations for common medical terms. Utilizing text/workbook, weekly tests and student activity CD-ROM, this course will provide the student with a working knowledge of common medical terms and abbreviations.

### **BIOL 1060 Environmental Science 4 credits (3 lecture, 1 lab)**

This course will focus on basic concepts in biology, ecology, and the scientific method. In addition, students will develop the ability to discuss the scientific basis of environmental issues and investigate potential solutions. Local ecosystems, organisms, and environmental issues will be used to develop an environmental literacy for students in this course.

### **BIOL 1101 General Biology I 5 credits (4 lecture, 1 lab)**

Fundamental concepts of biology, including chemical basis of life, cell structure and function, energy transformations, photosynthesis, cellular respiration, genetics, molecular biology, DNA technology, development, origin of life, and evolution.

**BIOL 1102 General Biology II**                      **5 credits (4 lecture, 1 lab)**

Fundamental concepts of biology, including classification and diversity of life, anatomy, physiology, and development of prokaryotes, protists, fungi, animals and plants: behavior, population, community and ecosystem ecology. (Prerequisite: BIOL 1101)

**BIOL 2020 Human Anatomy and Physiology I**                      **4 credits (3 lecture, 1 lab)**

Structural and functional aspects of selected human body systems with a strong emphasis on laboratory dissection and study. Designed for students majoring in nursing and health related sciences as well as physical education and liberal arts. (Prerequisite: BIOL 1101)

**BIOL 2021 Human Anatomy and Physiology II**                      **4 credits (3 lecture, 1 lab)**

Structural and functional aspects of selected human body systems with a strong emphasis on laboratory dissection and study. Designed for students majoring in nursing and health-related sciences as well as physical education and liberal arts. (Prerequisite: BIOL 2020)

**BUS 1080 Personal Finance**    **3 credits**

An overview of personal and family financial planning with an emphasis on financial record keeping, planning your spending, tax planning, consumer credit, making buying decisions, purchasing decisions, purchasing insurance, selecting investments, and retirement and estate planning.

**CAOR 1005 Career Exploration**                      **1 credit**

Effective career decision making and life planning requires skills. In this course, students will learn about their interests, values, and abilities and how these elements are related to a career choice. Techniques for researching occupations will be taught as well as skills for effective decision making and goal setting.

**CHEM 1010 General Chemistry I**                      **5 credits per course (4 lecture, 1 lab)**

An in-depth study of the principles of chemistry with emphasis on atomic and molecular structure, periodic relationships, stoichiometry, structural concepts, bonding, molecular geometry, and chemical reactions. (Prerequisite: high school chemistry, CHEM 1001, or consent of instructor)

**CHEM 1011 General Chemistry II**                      **5 credits (4 lecture, 1 lab)**

This course will provide an in-depth study of the principles of chemistry with emphasis on bonding, gas laws, phase changes of matter, solution chemistry, acids and bases, equilibrium, nuclear chemistry, and an introduction to organic chemistry. (Pre-requisite: CHEM 1010)

**ECON 2010 Principles of Economics: Microeconomics**                      **3 credits**

A study concerning the individual units of our economic system, including supply and demand, production and cost, output and input analysis, and other applications of microeconomics.

**ECON 2020 Principles of Economics: Macroeconomics**                      **3 credits**

A study concerning the economy as a whole which would include national income analysis, fiscal policy, international trade, and analysis of economic problems.

**ENGL 1101 College Composition                      3 credits**

College Composition is a freshman level composition course in which students practice thesis development, idea organization, grammar and usage, expository essay writing, and an introduction to research writing. (Prerequisite: College Level Accuplacer Score or Passing Grade in ENGL 0094 College Prep II)

**ENGL 1102 College Writing II: Advanced College Composition                      3 credits**

Advanced Composition is a second semester freshman composition course that focuses on writing effective arguments and academic papers. Emphasis will be placed on the in-depth research paper, with attention paid to both MLA and APA styles. (Prerequisite: Passing Grade in ENGL 1101 College Composition)

**ENGL 1110 College Writing II: Introduction to Literature                      3 credits**

In this introductory literature course students will read, discuss, and write about essays, poems, short stories, and plays. This course fulfills the second semester of the English requirement. (Prerequisite: ENGL 1101)

**FRCH 2001- French III                                      4 credits**

Students will have the opportunity to further develop their skills in listening, speaking, reading, and writing French. Grammar will be reviewed. This course will be taught primarily in French. (Prerequisite: FREN 1002 or a passing score on a designated proficiency exam.)

**GER 1001 Introduction to German   4 credits**

An introductory course in speaking, reading, listening, and writing German which will enable the learner to grasp the challenge of a foreign language.

**GER 1002 GERMAN II                      4 credits**

This course will build on previous knowledge of German as students use more complex vocabulary and sentence structure to speak and write in German, focusing on pronunciation, practical vocabulary, grammar, reading, and conversation. (Prerequisite GERM 1001 or a minimum of one year of high school German)

**GER 2001 German III                      4 credits**

Students will have the opportunity to further develop their skills in listening, speaking, reading, and writing German. Grammar will be reviewed. This course will be taught primarily in German. (Prerequisite: GERM 1002 or a passing score on a designated proficiency exam.)

**GEOL 1001 Introductory Geology                      4 credits (3 lecture,1 lab)**

An introduction to the structure and evolution of the earth and its land- forms, including the study of minerals and rocks, volcanic activity, earth quakes, and the theory of plate tectonics. The geology of Minnesota is emphasized.

**HIST 1010 History of Western Civilization I                      4 credits**

This course examines the history of western civilization to 1776 with a focus on economic, social and political developments. Topics include Ancient Civilizations, Ancient Greece and Rome, the Middle Ages and the Renaissance.

**HIST 1011 History of Western Civilization II**      **4 credits**

This course examines the history of western civilization from 1776 to the present. The scope of the course includes economic, social and political developments. Topics include: political and economic revolution, the Industrial Age, the world wars and the Cold War.

**HIST 1030 History of the United States I**      **4 credits**

This course examines the history of the United States to 1876. The scope of inquiry includes economic, social and political developments. Topics include: the colonial era, foundation of the American Republic, westward continental expansion and the Civil War.

**HIST 1031 History of the United States II**      **4 credits**

This course examines the history of the United States from 1876 to pre- sent. The scope of inquiry includes economic, social and political developments. Topics include: industrialization, the Depression and New Deal, the world wars and the Cold War.

**LAWE 1001 Introduction to Criminal Justice**      **3 credits**

An analysis of the criminal justice system in the United States, including criminal law and the roles and relationships of agencies of crime and delinquency prevention, police, courts, and corrections. The course focuses on policing and its relation-ship in the criminal justice system.

**MATH 1010 College Algebra**      **3 credits**

The real numbers, first degree equations and inequalities with word problem applications and linear graphs. Second degree equations, and inequalities in one and two variables with the quadratic formula and graphs. Relations, functions, absolute value, and variation. Exponential and logarithmic functions with applications. Polynomial equations, and complex numbers. Systems of equations and inequalities. (Prerequisite: C grade in MATH 0030 or appropriate Accuplacer score or consent of instructor)

**MATH 1015 Trigonometry**      **3 credits**

Study credits of angles in degree and radian measure; trigonometric functions of angles in a coordinate system and in triangles; solutions of triangles and applications; solutions of trigonometric identities and equations; graphs of the trigonometric functions and inverses. (Prerequisite: MATH 0030 or equivalent)

**MATH 1020- Calculus Short Course**      **3 credits**

A brief survey of calculus including some integration. Review of real numbers, graphing, functions, and inequalities, derivatives, limits, and continuity. Differentiation techniques including chain rule and implicit differentiation. Applications of the derivative to maximum and minimum including cost, revenue, and profit functions. The definite and indefinite integral with applications to the physical, social, and behavioral sciences. Logarithmic and exponential functions with applications of growth, decay, and populations. Students planning to enroll in more than one semester of calculus should begin in MATH 2001. (Prerequisite: MATH 1010 or equivalent or consent of instructor)

**MATH 1030 Introduction to Statistics**      **3 credits**

An introduction to statistics suitable for social and behavioral science majors, but also suitable for students in other disciplines. Topics include statistical theory and experimental design, descriptive statistics, probability distribution models, regression analysis and correlation, inference, and sampling methods. (Prerequisite: MATH 0030 or equivalent)

**MATH 2001 Calculus I 5 credits**

The two semester calculus sequence is designed for mathematics, computer science, engineering, and natural science majors. An introduction to basic differential and integral calculus: limits, derivatives and applications, integration and applications. (Prerequisite: MATH 1010 and 1015, appropriate Accuplacer score, or consent of instructor)

**MUSC 1040 Fundamentals of Music Theory 2 credits**

This course is for the student interested in acquiring the basic knowledge of music theory. The basic concepts of rhythm, melody and harmony are studied, as well as chord inversions, altered chords, simple forms, and cadences. Students are introduced to the playing of instruments such as the recorder. Students planning to major in Elementary Education must take this course to fulfill the requirements for an Elementary Education degree. Music majors and minors will need to take this course in sequence with MUSIC 1041.

**PHYS 1001/1002 Introduction to Physics I and II 4 credits per course (3 lecture, 1 lab)**

An algebra-based general physics course designed for pre-professional and non-engineering majors. Concepts in mechanics, electricity, magnetism, heat, light, sound, and modern physics will be explored through extensive laboratory activities. (Prerequisite: high school Higher Algebra or consent of instructor)

**POLS 1010 American Government 3 credits**

A study of the structure and function of the national government of the United States. The course examines the Presidency, Congress, and federal courts as well as the impact of interest groups, political parties, and the media upon government.

**PSYC 2001 General Psychology 4 credits**

An introduction to the scientific study of human behavior: history, background and methods, development, perception, learning, thinking, motivation, emotion, intelligence, personality, adjustment, mental health, and social psychology.

**SPAN 1001 Introduction to Spanish 4 credits**

An introductory course in speaking, reading, listening, and writing Spanish, which will enable the learner to grasp the challenge of a foreign language.

**SPAN 1002 Spanish II 4 credits**

This course will build on previous knowledge of Spanish as students use more complex vocabulary and sentence structure to speak and write in Spanish, focusing on pronunciation, practical vocabulary, grammar, reading, and conversation. (Prerequisite: SPAN 1001 or a minimum of one year of high school Spanish)

**SPAN 2001 Spanish III 4 credits**

Students will have the opportunity to further develop their skills in listening, speaking, reading, and writing Spanish. Grammar will be reviewed. This course will be taught primarily in Spanish. (Prerequisite: SPAN 1002 or a passing score on a designated proficiency exam)

**SPAN 2002 Spanish IV**                      **4 credits**

The student will continue to build on skills acquired in previous classes. The focus will be on reading Spanish literature, writing, and speaking. This course will be taught in Spanish. (Prerequisite: SPAN 2001)

**SPCH 1010 Public Speaking**                      **3 credits**

This course provides students the opportunity to develop and/or enhance their public speaking skills with attention to cultural diversity. With a focus on extemporaneous delivery, students will learn to organize, outline, prepare, and deliver introductory, informative, and persuasive speeches. Impromptu, manuscript, group discussion, and minimizing stage fright techniques will also be examined.

**SPCH 1030 Intercultural Communication**                      **3 credits**

This course interfaces culture and communication. Students learn how cultures provide individuals with different worldviews, beliefs, attitudes, and values, and will examine how this creates difficulties in the inter-cultural/multicultural communication process. It is designed to cultivate, promote, and increase appreciation, understanding, and communication competence with people outside of one's immediate culture.