

## Dixie State University Concurrent Enrollment Course Descriptions 2018-2019

### CE Courses Are Taught:

- *On Dixie State University's main campus (mixed with full time DSU students)*
- *DSU North Plaza bldg. (dedicated to high school CE students)*
- *Taylor Health Science bldg. (across from IHC Medical Center)*
- *DSU Hurricane Education Center*
- *On the individual high school campuses*
- *Online*

### **ACCT 1010 – Applied Business Accounting**

For non-accounting majors, introduces basic bookkeeping practices through the complete accounting cycle for hospitality and service companies. 2.0 Credit Hours

### **ACCT 2010 – Financial Accounting**

Required of students pursuing majors and emphases in School of Business, and open to other interested students. Introduces basic concepts of financial accounting, covering complete accounting cycle for service and merchandise companies, including depreciation, and inventory. A \$25.00 accounting fee is required. 3.0 Credit Hours (taught only on the DSU main campus)

### **ART 1010 – Intro to Art**

*Meets 1.0 high school Art credit requirement towards the 1.5 needed for graduation.*

*Fulfills the General Education requirement for Art at DSU.* Includes identification of major art forms, brief survey of art history, investigation of art criticism, introduction of various media, and identification of elements and principles of art. *A \$10.00 fee is required if taken on the DSU campus.* 3.0 Credit Hours

### **ART 1100—Design for Non-Majors**

*Meets 1.0 high school Art credit toward the 1.5 needed for graduation.*

*Fulfills the General Education requirement for Art at DSU.* Students will attain a broad experience and exposure through lecture, discussion and visual production to a multitude of possibilities of how to view, interpret, and create art. Concepts of visual artistry will be developed with intellect, intuition, philosophy, and personal insight at both studio and historical levels through investigation of the basic principles of visual art: line, shape, value, mark, texture, composition space, and varied color theory. Students will come to an understanding of art as a potent and positive force of influence and change in the world through varied instruction and exams. Course fee required. *A \$50.00 studio fee is required if taken on the DSU campus.* 3.0 Credit Hours

## Dixie State University Concurrent Enrollment Course Descriptions 2018-2019

### **ASL 1010 – Beginning American Sign Language I**

For beginning students interested in American Sign Language. Emphasizes principles, methods, and techniques of communicating manually with deaf individuals. Teaches basic receptive and expressive skills, overviews basic grammatical structure in signing, and explores deaf culture. A variety of teaching methods are employed, including drills, videos, and work in pairs. This course partially qualifies students to receive an Associate of Arts degree or Bachelor of Arts degree for some majors. Successful completers are prepared to take ASL 1020 (1020 is expected to be available for Concurrent Enrollment credit beginning fall 2019). Placement in foreign language classes on the DSU campus is at the discretion of the Department Chair. Prerequisite: High school level ASL I when CE course is taught on the high school campus. 4.0 Credit Hours

### **BIOL 1010 – General Biology**

*Meets 1.0 high school Science credit toward the 3.0 needed for graduation.*

*Fulfills the General Education (GE) requirement for Life Science at DSU.* Not for science majors, this course focuses on general principles of Biology, including cell theory, genetics, evolution, and interrelationships of living things, using a variety of teaching methods including lecture/discussion, laboratory, overheads, videos, quizzes, and exams. Co-requisite: BIOL 1015 is required for Concurrent Enrollment credit when taken on the high school campus and to meet Regents' Scholarship requirements. 3.0 Credit Hours

### **BIOL 1015 – General Biology Lab**

*Fulfills the General Education (GE) requirement for Laboratory Science at DSU.* Lab course designed to accompany BIOL 1010. Students will have hands-on experience in a laboratory setting, including the use of microscopes, measurement and simple data analysis, observations of osmosis and diffusion, and other group activities in order to appreciate the true essence of science and the scientific process of acquiring knowledge through inquiry. A \$75.00 lab fee is required if taken on the DSU campus. Co-requisite: BIOL 1010. 1.0 Credit Hour

### **BIOL 1610 – Principles of Biology I**

*Meets 1.0 high school Science credit toward the 3.0 needed for graduation.*

*Fulfills the General Education (GE) requirement for Life Science at DSU.* Introductory course required of all Biology majors, including pre-health science, pre-nursing, pre-veterinary, pre-medical, pre-dental, and other pre-professional students. Emphasizes the scientific method; cell processes, including basic chemistry, cellular level structure, and function; and the principles of inheritance, evolution and ecology. Fulfills prerequisite to most other Biology courses. Co-requisite: BIOL 1615. 4.0 Credit Hours

### **BIOL 1615 – Principles of Biology I Lab**

*Fulfills the General Education (GE) requirement for Laboratory Science at DSU.* Lab portion of BIOL 1610. An \$80.00 lab fee is required if taken on the DSU campus. Co-requisite: BIOL 1610. 1.0 Credit Hour

## Dixie State University Concurrent Enrollment Course Descriptions 2018-2019

### **BIOL 2320 – Human Anatomy**

*Meets 1.0 high school Science credit toward the 3.0 needed for graduation.*

For students pursuing health science fields, including pre-allied health, pre-nursing, pre-physical therapy, pre-dental, pre-medical, and many others. Examines the structures of the human body, including muscles, nerves, blood supply, bones, lymph, internal organs, and reproductive anatomy.. Includes lectures supplemented with laboratory examinations of cadavers and physical and virtual models. Successful completers will have advanced familiarity with the nomenclature and locations of structures in the human body. **Successful completion of high school Medical Anatomy & Physiology and either BIOL 1010, BIOL 1610, or equivalent is highly recommended prior to enrolling.** Co-requisite: BIOL 2325 3.0 Credit Hours

### **BIOL 2325 – Human Anatomy Lab**

Lab portion of BIOL 2320. Includes cadaver study. **Successful completion of high school Medical Anatomy & Physiology and either BIOL 1015, BIOL 1615 labs, or equivalent is highly recommended prior to enrolling.** *A lab fee is required.* Co-requisite: BIOL 2320 3.0 Credit Hours

### **BIOL 2420 – Human Physiology**

*Meets 1.0 high school Science credit toward the 3.0 needed for graduation.*

Required for students pursuing a Biology Secondary Education degree, as well as many pre-allied health, pre-nursing, pre-dental, pre-medical, and other pre-professional programs. Examines how the body's functions are carried out utilizing a systems approach, including blood chemistry, nerve impulse transmission, kidney function, muscle contraction, and hear function. Successful completers of this intensive course will have sufficient familiarity with the details of biological functions to enable them to understand disease processes, treatment procedures, research pursuits, and evolutionary consequences of various aspects of physiology. . **Successful completion of high school Medical Anatomy & Physiology and either BIOL 1010, BIOL 1610, or equivalent is highly recommended prior to enrolling.** Co-requisite: BIOL 2425 3.0 Credit Hours

### **BIOL 2425 – Human Physiology Lab**

Lab portion of BIOL 2420. **Successful completion of high school Medical Anatomy & Physiology and either BIOL 1015, BIOL 1615 labs, or equivalent is highly recommended prior to enrolling.** *A lab fee is required.* Co-requisite: BIOL 2420 3.0 Credit Hours

### **CHEM 1010 – Intro to Chemistry**

*Meets 1.0 high school Science credit toward the 3.0 needed for graduation.*

*Fulfills the General Education (GE) requirement for Physical Science at DSU.* For students majoring in Business, Communication, Fine Arts, Humanities, and other non-Science disciplines. Emphasizes basic chemical concepts within daily life. Co-requisite: CHEM 1015 is required for Concurrent Enrollment credit when taken on the high school campus and to meet Regents' Scholarship requirements. 3.0 Credit Hours

### **CHEM 1015 – Intro to Chemistry**

*Fulfills the General Education (GE) requirement for Laboratory Science at DSU.* Lab portion of CHEM 1010. *A \$50.00 lab fee is required if taken on the DSU campus.* 1.0 Credit Hour

## Dixie State University Concurrent Enrollment Course Descriptions 2018-2019

### **CHEM 1110 – Elementary General/Organic Chemistry**

*Meets 1.0 high school Science credit toward the 3.0 needed for graduation.*

*Fulfills the General Education (GE) requirement for Physical Science at DSU.* For students majoring in Health Sciences, Family & Consumer Science, Natural Resources, or Agriculture. Not appropriate for students majoring in Life Science, Physical Science, pre-Medical, pre-Dental or other pre-professional programs. First semester in a 2-course sequence covering fundamental laws and reactions of general inorganic and organic chemistry, including the basic organic functional groups. Successful completion satisfies prerequisite for CHEM 1120 (1120 is not covered under Concurrent Enrollment funding). Prerequisite: MATH 1010 (C grade or better), OR math ACT placement score of 23 or higher, OR Accuplacer math score of 89 or higher, OR SAT math score of 540 or higher. Co-requisite: CHEM 1115. 4.0 Credit Hours

### **CHEM 1115 – Elementary General/Organic Chemistry Lab**

*Fulfills the General Education (GE) requirement for Laboratory Science at DSU.* Lab portion of CHEM 1110. Co-requisite: CHEM 1110. A \$100.00 lab fee is required if taken on the DSU campus. 1.0 Credit Hour

### **CHEM 1210 – Principles of Chemistry I**

*Meets 1.0 high school Science credit toward the 3.0 needed for graduation.*

*Fulfills the General Education (GE) requirement for Physical Science at DSU.* For students majoring in Life or Physical Sciences, Engineering, and pre-professional programs (pre-medical, pre-dental, etc.). Provides theoretical and practical framework for further study in the sciences; emphasizes measurement, stoichiometry, the nature of the atom, chemical periodicity, the states of matter, thermodynamics, and bonding. Completion of prior Chemistry course (high school or CE) is strongly recommended before enrolling in this course. Prerequisite: Math 1050 (grade C or better), OR an math ACT placement score of 25 or higher; OR an Accuplacer Math placement score of 95 or higher; OR an SAT Math placement score of 580 or higher; all within two years of enrollment in this course. Co-requisite: CHEM 1215. 4.0 Credit Hours (taught only on the DSU main campus)

### **CHEM 1215 – Principles of Chemistry I Lab**

*Fulfills a General Education Science Lab requirement.* Lab portion of CHEM 1210. Co-requisite: CHEM 1210. A \$100.00 lab fee is required. 1.0 Credit Hour (taught only on the DSU main campus)

### **COMM 2110 – Interpersonal Communications**

*Meets 1.0 high school Senior Language Arts credit requirement for graduation.*

*Fulfills General Education (GE) Social & Behavioral Sciences requirement at DSU.* Required of all Communication majors. Focuses on communication skills in a wide range of interpersonal areas appropriate to business or personal relationships, and involving initiating, developing, maintaining, and controlling the deterioration of relationships, with emphasis on listening, assertiveness, supportive climates, conflict, power management, and disclosure. Introduces the special needs of intercultural communication, and prepares students to effectively express ideas in one-to-one settings. 3.0 Credit Hours

## Dixie State University Concurrent Enrollment Course Descriptions 2018-2019

### **CS 1400 – Fundamentals of Programming**

Required of all students pursuing Computer and Information Technology degrees. Open to all students with a general interest in computer programming. Covers structured programming techniques and the syntax of a high level programming language through completion of programming projects of increasing difficulty. A \$25.00 lab fee is required if taught on the DSU Campus. 3.0 Credit Hours

### **CS 1410 – Object Oriented Programming**

Required of all students pursuing Computer and Information Technology degrees. Open to all students with a general interest in computer programming. Introduces object oriented programming techniques through completion of programming projects of increasing difficulty. Prerequisite: CS 1400 (grade C- or higher. A \$25.00 lab fee is required if taught on the DSU Campus. 3.0 Credit Hours

### **DANC 1010 – Dance in Culture**

*Meets 1.0 high school Art credit requirement towards the 1.5 needed for graduation. Fulfills the General Education (GE) requirement for Art at DSU.* A beginning theoretical course examining societal diversity and artistic expression across cultures through the art of dance and body movement. Designed to introduce the definition of dance, basic history of dance and different genres of dance to enable students to make certain critical analyses and to identify style, form, technique and individuals who have made significant contributions in the dance field. Increase participant' capacity to enjoy the art of dance and to appreciate the great variety of dance and diversity of culture in human society. Taught through lecture, discussion, practice sessions, and video observation. 3.0 Credit Hours

### **DES 1100 – Intro to Digital Design**

Introduces software and principles related to digital design and visual communications, and the creation and reproduction of art. Teaches how to create and modify digital images, illustration, and page layout using current design software and printing techniques. A \$25.00 lab fee is required if taught on the DSU Campus. 3.0 Credit Hours

### **DES 1300 – Communication Design**

For students pursuing a degree in Computer and Information Technology. Explores the elements of design form which advertising, computer graphics, and graphic arts are structured by building awareness and skill in creating designs, using the concepts of compositions, proportion, alignment, contrasts, white space, typography, eye movement, and element control, emphasizing the value of these concepts to communicate ideas. A \$25.00 lab fee is required if taught on the DSU Campus. 3.0 Credit Hours

## **Dixie State University Concurrent Enrollment Course Descriptions 2018-2019**

### **DES 1610 – Screen Printing**

For students interested in the printing industry. Includes printing on various substrates using photographically generated stencils, reproducing images with computers for positive reproduction using the process camera, multi-color screen printing on fabric, and assembling a design of text and graphic to be embroidered on apparel. A \$10.00 lab fee is required taken as an evening class at SCHS. 3.0 Credit Hours

### **DES 2300—Design II**

An intermediate level course that expands the skills and knowledge acquired in Design I. The course emphasizes practical assignments that examine applied problem solving and professional solutions for graphic designers. Specific themes/topics for the course include visual grouping and hierarchy, visual identity development and application of Gestalt theory. Prerequisites: DES 1100 and DES 1300 (both Grade C- or higher). A \$25.00 lab fee is required if taught on the DSU Campus. 3.0 Credit Hours (taught only on the DSU main campus)

### **EDUC 1010 – Intro to Education**

Required prerequisite course for both the Elementary Education degree and the Secondary Education Teaching (SET) program. Provides an overview of vocational aspects of a teaching career including: certification requirements, foundations of education, current and historical issues in education, an overview of current trends in methodology, and classroom management. This class provides students with an opportunity to assess oneself as a prospective teacher. Various teaching methods are used including lecture, cooperative learning, inquiry methods, direct instruction and mastery learning. Students are required to do two full observation days in local K-12 school settings. 3.0 Credit Hours

### **EMS 1100 – Emergency Medical Technician (EMT)**

Open to students who have current CPR certification (AHA-HCP/RC-Pref. Res.). Presents instruction in the theory and practice of first aid, providing students with knowledge and skills necessary to meet common emergencies associated with injury and illness. Topics include CPR, bone and joint injuries, dressings and bandages, sudden illness, and emergency childbirth. Successful completers will be prepared to take the Utah EMT certification test. Course fee required. Prerequisite: Admission to the Dixie State University Emergency Medical Technician program. CE students must be 18 years old by the end of the class. 9 Credit Hours (taught only on the DSU Hurricane Education Center campus)



## Dixie State University Concurrent Enrollment Course Descriptions 2018-2019

### **ENGL 1010 – Introduction to Writing**

*Meets 1.0 high school Senior Language Arts credit requirement for graduation.*

*Fulfills the first half of the General Education (GE) English requirement at DSU.* Designed to improve students' abilities to read, analyze, and write expository papers. Provides opportunities to write and revise a number of essays. Activities, library research, portfolios, writing to a style guide, and tests may also be used to prepare students to write college level papers. Successful completers (grade C or higher) will be prepared to take ENGL 2010. Pre-requisite: English ACT placement score of 17 or higher AND an ACT Reading placement score of 17; OR an Accuplacer English placement score of 76 or higher AND an Accuplacer Reading placement score of 66 or higher; OR an SAT English placement score of 450 AND an SAT Reading placement score of 420 or higher. 3.0 Credit Hours

### **ENGL 2010 – Intermediate Writing: Selected Topics (English GE)**

*Meets 1.0 high school Senior Language Arts credit requirement for graduation.*

*Fulfills the second half of the General Education (GE) English requirement at DSU.* Provides opportunities to analyze and write academic papers, including the research-supported essay, through writing and revising a number of essays. Other activities, such as portfolios, library research, and tests may be used to help students improve their writing of advanced-level papers. Successful students will demonstrate competence in the use of standard written English, in analyzing texts, in correctly paraphrasing, summarizing and quoting source material, and in appropriately citing the work of others. Prerequisites: ENGL 1010 with a C grade OR an ACT English score of 28 or higher OR a passing AP Language or Literature score of 3-5. Students must be seniors in high school. 3.0 Credit Hours

### **ENGL 2200 – Introduction to Literature**

*Meets 1.0 high school Senior Language Arts credit requirement for graduation.*

*Fulfills the Literature/Humanities General Education (GE) requirement at DSU.* For all students who would like to increase their enjoyment of literature. Provides basic understanding of novels, short stories, poems, plays, and essays. Students will learn to read analytically and write critically. 3.0 Credit Hours

### **FIN 1750 – Personal Finance**

*Meets 1.0 high school Financial Literacy credit requirement for graduation.*

*Fulfills General Education (GE) Social and Behavioral Sciences requirement.* Open to all students who spend money (or plan to spend money). Covers conceptual tools needed to function in an expanding economy that requires personal financial decisions such as spending, saving, borrowing, insurance, consumer product purchases and investing decisions, as well as development of a personal budget, following a stock, and a group exploration presentation. 3.0 Credit Hours

## Dixie State University Concurrent Enrollment Course Descriptions 2018-2019

### **FSDH 1020 – Scientific Foundations of Nutrition**

*Fulfills General Education (GE) Life Science requirement.* Open to all students who have an interest in human nutrition and how it relates to individual dietary requirements. May be of particular interest to students with an emphasis in Health Sciences, Education, or related fields. Various periods during the life cycle - infancy, childhood, adolescence, pregnancy, and the later years--and their specific nutrient needs will be analyzed as well as the basic nutrients and how they are absorbed and used by the body. Other areas of focus will include nutrition for athletes, eating disorders, weight control, and food safety. Includes lecture, multi-media, applied nutrition group activities, guest lecturers, and computer analysis of personal diet. Students will record and analyze their own diet. 3.0 Credit Hours

### **FSDH 1500 – Human development Across the Lifespan**

*Fulfills General Education (GE) Social and Behavioral Sciences requirement at DSU.* Of particular interest to those interested in education and health. Utilizes theory and current practices in child development as they apply to the effects of culture and the bio-social, cognitive, and psychosocial development through the lifespan. Diversity as well as global issues affecting human populations is integrated into each section of the course. Lecture-based course with a strong laboratory involvement in the Dixie State University Preschool. Includes observations and active learning approaches in class. Dual listed with PSY 1100 (students may only take one course for credit). 3.0 Credit Hours

### **GEO 1010 – Introduction to Geology**

*Fulfills General Education (GE) Physical Science requirement at DSU.* For non-Science majors. General survey of physical Geology, focusing on developing an appreciation for the region's scenic landforms and their origins, as well as Earth history and processes, natural resources, geological hazards, and landforms. GEO 1015 lab course is recommended but not required. Field trip required. A \$15.00 course fee is required. 3.0 Credit Hours

### **GEO 1015 – Introduction to Geology Lab**

A laboratory course designed to be taken concurrently with Geology 1010, but not required. A \$40.00 lab fee is required. Co-requisite (as applicable): GEO 1010. 1.0 Credit Hour

### **HIST 1700 – American Civilization**

*Does NOT meet 1.0 high school US History credit requirement for graduation.*

*Fulfills the General Education (GE) American Institutions (Utah State Code R470) requirement at DSU.* Surveys the historical, constitutional, and economic growth of the United States from colonial times to the present. Employs lectures, discussion, audio-visual materials, and various other instructional methods. Successful students will demonstrate a reasonable understanding of the history, principles, form of government, and economic system of the United States, as well as an appreciation of the American heritage and the responsibilities of American citizens. Prerequisite: An ACT Reading placement score of 17 or higher; OR an Accuplacer Reading placement score of 66 or higher; OR an SAT Reading placement score of 415 or higher. 3.0 Credit Hours (taught only on the DSU main campus)



## Dixie State University Concurrent Enrollment Course Descriptions 2018-2019

### **HIST 2700 – U.S. History to 1877**

*Fulfills 1.0 high school US History credit requirement for graduation only when taken with HIST 2710.*

*Fulfills the General Education (GE) American Institutions (Utah State Code R470) requirement at DSU, if both HIST 2700 and HIST 2710 are successfully completed. If course is not used for American Institutions requirement, it can be used to fulfill the General Education (GE) Social & Behavioral Sciences requirement for DSU.* Chronological survey of the first half of the American experience, beginning with the Paleo-Indian cultures and emphasizing American Independence, development of the Constitution, the emergence of Jacksonian democracy, and the causes of the Civil War, through post-Civil War Reconstruction. Includes social, political, economic, cultural, and diplomatic developments throughout this period. Prerequisite: An ACT Reading placement score 17 or higher OR an Accuplacer Reading placement score of 66 or higher; OR an SAT Reading placement score of 415 or higher. 3.0 Credit Hours

### **HIST 2710 – U.S. History Since 1877**

*Fulfills 1.0 credit of the high school's extra 0.5 Social Studies Elective credit requirement for graduation when taken with HIST 2700.*

*Fulfills the General Education (GE) American Institutions (Utah State Code R470) requirement at DSU, if both HIST 2700 and HIST 2710 are successfully completed.* Chronological survey of the second half of the American experience, beginning with the collapse of post-Civil War Reconstruction and emphasizing the growth of the U.S., emergence as a world power, and domestic reform of the twentieth century, through contemporary issues. Includes the social, political, economic, cultural, and diplomatic developments throughout this period. Prerequisite: Passing grade in HIST 2700 3.0 Credit Hours

### **HLOC 1000 – Medical Terminology**

Strongly recommended for students entering health professions; open to all students. Emphasizes memorization of word roots, suffixes, and prefixes of both Greek and Latin origin, as well as proper pronunciation and spelling of medical terms. Material is organized according to body systems; some basic anatomy and physiology is included. 2.0 Credit Hours

### **HUM 1010 – Intro to Humanities**

*Fulfills 1.0 high school Senior Language Arts credit requirement for graduation.*

*Fulfills the Literature/Humanities General Education (GE) requirement at DSU.* For students in all disciplines with an interest in exploring the interrelationship of art, literature, music, philosophy, architecture, sculpture, and other art forms. Enhances appreciation and understanding of all forms of creative human expression. Includes readings, films, group discussions, lectures, and written responses to the humanities through papers and exams. Successful students will demonstrate skill on exams and in discussing, reading and writing about the humanities. 3.0 Credit Hours

## Dixie State University Concurrent Enrollment Course Descriptions 2018-2019

### **IT 1100 – Intro. To Linux/Unix**

Required of all Computer and Information Technology majors, and open to students with a general interest in computer operating systems. Introduces operating system concepts, including file systems, process management, user management, and security. Students will install and configure LINUX and MAC OSX. A \$25.00 lab fee is required. 3.0 Credit Hours

### **IT 1200 – A+ Computer Hardware/Windows OS**

This course covers installation, repair and maintenance of computer hardware. It also discusses installation, repair and maintenance of the Microsoft Windows operating system. This course prepares the student to take the Comp TIA A+ certification exams. Course fee required. A \$25.00 lab fee is required. 3.0 Credit Hours

### **IT 2400 – Intro. To Networking**

Required of all Computer Science and Computer and Information Technology majors, and open to students with a general interest in computer networking. Introduces fundamental concepts of computer networks, including physical, transport, and application layers through completion of assignments predicting and measuring the behavior of computer networks under various conditions. A \$25.00 lab fee is required. 3.0 Credit Hours

**\*\*To qualify for any level of CE math class as a high school student, the student must have taken Secondary Mathematics 1, 2 & 3. All prerequisite ACT or Accuplacer (College Placement Tests) scores need to be less than two years old.**

### **MATH 1010 – Intermediate Algebra**

Prepares students for courses that fulfill the General Education Math requirement. Concepts emphasized in this course include the properties of the real number system, sets, functions, graphs, algebraic manipulations, linear and quadratic equations, systems of equations, and story problems. Students will be expected to reason mathematically and solve mathematical problems. Successful completion of the course gives students good preparation for college-level math courses. Successful completers satisfy prerequisite for MATH 1050, and Mathematics prerequisite for CHEM 1110, and PHYS 1010. Purchase of MyMath Lab is required.

Prerequisite: Secondary Mathematics 1, 2 & 3 AND one of the following: a C avg. grade or higher in each Secondary Mathematics courses OR an ACT Math placement score of 18 or higher; OR an Accuplacer Math placement score of 54 or higher. Course only offered as concurrent enrollment credit on the high school campuses by qualified instructors. 4.0 Credit Hours

## Dixie State University Concurrent Enrollment Course Descriptions 2018-2019

### **MATH 1030 – Quantitative Reasoning**

*Fulfills General Education (GE) Mathematics requirement for DSU.* For students in Fine Arts, Liberal Arts and other degrees. Focuses on development of analytical problem solving skills through the application of various mathematical concepts to real-life problems. Topics of study include: modeling with algebra; geometry; logic; financial math; right triangle trigonometry (indirect measurement); probability and statistics. Students are cautioned to check degree and/or transfer requirements before taking this course. Purchase of MyMath Lab is required.

Prerequisite: Secondary Mathematics 1, 2 & 3 AND one of the following: a C avg. grade or higher in each Secondary Mathematics courses OR MATH 1010 with a C grade or better OR an ACT Math placement score of 20 or higher; OR an Accuplacer Math placement score of 75 or higher. 3.0 Credit Hours

### **MATH 1040 – Introduction to Statistics**

*Fulfills General Education (GE) Mathematics requirement for DSU.* For students majoring in Communications, Social & Behavioral Sciences, Fine Arts, Liberal Arts and Health Sciences. Introduction to basic concepts and methods used in statistical data analysis; includes descriptive statistics, sampling, and inferential methods while emphasizing problem solving and critical thinking. Microsoft Excel is used to perform statistical calculations, organize and analyze data, and construct graphs. Required for Utah Level 2 Math Endorsement. (Students are cautioned to check degree and/or transfer requirements before taking this course.) Purchase of MyMath Lab is required. Prerequisite: Secondary Mathematics 1, 2 & 3 AND one of the following: a C avg. grade or higher in each Secondary Mathematics courses OR an ACT Math placement score of 22 or higher; OR an Accuplacer Math placement score of 75 or higher; OR MATH 1010 (grade C or higher). 3.0 Credit Hours

### **MATH 1050 – College Algebra/Pre-Calculus**

*Fulfills General Education (GE) Mathematics requirement for DSU.* For students majoring in Business, Elementary Education, Science, and other majors. Reviews fundamental algebra; explores polynomial and rational functions; introduces exponential and logarithmic functions and applications; trigonometric functions dealing with graphs, identities, and equations, including inverse functions. Required for Utah Level 2 and Level 3 Math Endorsements. Satisfies prerequisites for MATH 1060, MATH 1100, MATH 1210 (also needs MATH 1060), and MATH 2010, and Mathematics prerequisite for CHEM 1210. Prerequisite: Secondary Mathematics 1, 2 & 3 AND one of the following: an ACT Math placement score of 23 or higher; OR an Accuplacer Math placement score of 89 or higher; OR MATH 1010 (grade C or higher). 4.0 Credit Hours

### **MATH 1060 – Trigonometry**

*Fulfills General Education (GE) Mathematics requirement for DSU.* Continuation of MATH 1050, involving further discussion of trigonometry and its applications, analytic geometry including conic sections, systems of equations and inequalities, and partial fractions, as well as introducing discrete algebra including sequences and series and the binomial theorem. Successful completion fulfills prerequisite for MATH 1210 (along with 1050), and Mathematics prerequisite for PHYS 2010. *This course is recommended for students who have completed MATH 1050.*

Prerequisite: Secondary Mathematics 1, 2 & 3 AND one of the following: Math placement score of 25 or higher; OR an Accuplacer Math placement score of 95 or higher; OR MATH 1050 (grade C or higher). 3.0 Credit Hours

## Dixie State University Concurrent Enrollment Course Descriptions 2018-2019

### **MATH 1080 – Pre-calculus with Trigonometry**

*Fulfills General Education (GE) Mathematics requirement for DSU.* Provides in-depth review of pre-calculus and trigonometry before entering trig based calculus by reviewing concepts taught in MATH 1050 and MATH 1060. Successful completion fulfills prerequisite for MATH 1210, and Mathematics prerequisite for PHYS 2010. **This course is recommended for students who skipped MATH 1050 and who completed “Honors” Secondary Mathematics 1, 2 & 3.**

Prerequisite: Secondary Mathematics 1, 2 & 3 AND one of the following: Math placement score of 25 or higher; OR an Accuplacer Math placement score of 95 or higher; OR MATH 1050 (grade C or higher) OR MATH 1010 (grade B or higher). 5.0 Credit Hours (taught only on the DSU main campus)

### **MATH 1210 – Calculus I**

*Fulfills General Education (GE) Mathematics requirement for DSU.* Students will gain a basic understanding of calculus, the mathematics of motion and change, including limits and continuity, differentiation, applications of differentiation, integration, applications of integration, derivatives of exponential functions, logarithmic functions, inverse trigonometric functions, hyperbolic functions, and related integrals. Students must have a working knowledge of college algebra and trigonometry, and a graphing calculator is strongly recommended. Required for Utah Level 2, 3, and 4 Math Endorsements, and for students majoring in Computer Science. Successful completion fulfills prerequisite for MATH 1220, and Mathematics prerequisite for ENGR 2010 and PHYS 2210. **This course is NOT recommended for students skipping the prerequisite CE math courses (1050 & 1060 or 1080) even if the “test” into this level.**

Prerequisite: Secondary Mathematics 1, 2 & 3 AND MATH 1050 AND MATH 1060 (both grade C or higher); OR MATH 1080 (grade C or higher); OR an ACT Math placement score 26 or higher; OR an Accuplacer Math placement score of 105 or higher. 5.0 Credit Hours (taught only on the DSU main campus)

### **MATH 1220 – Calculus II**

*Fulfills General Education (GE) Mathematics requirement for DSU.* Continuation of MATH 1210, covering length, area of a surface of revolution, moments and centers of mass, integration techniques, sequences and series, parameterization of curves and polar coordinates, vectors in 3-space, quadric surfaces, and cylindrical and spherical coordinates. Required for Utah Level 3 and 4 Math Endorsements. Successful completion fulfills prerequisite for MATH 2210, and Mathematics prerequisite for ENGR 2250, ENGR 2300, and PHYS 2210. Prerequisite: Secondary Mathematics 1, 2 & 3 AND MATH 1210 (grade C or higher). 4.0 Credit Hours (taught only on the DSU main campus)

### **MATH 2210 – Multivariable Calculus**

*Fulfills General Education (GE) Mathematics requirement for DSU.* Continuation of MATH 1220. Includes partial derivatives, gradient vectors, Lagrange multipliers, multiple integrals, line integrals, Green’s Theorem, surface integrals, the Divergence Theorem, and the introduction of MathCAD Calculus. Prerequisite: Secondary Mathematics 1, 2 & 3 AND MATH 1220 (grade C or higher). 3.0 Credit Hours (taught only on the DSU main campus)

## Dixie State University Concurrent Enrollment Course Descriptions 2018-2019

### **MDIA 1380 – Intro to Television Production**

For Media Studies majors, but open to all students interested in television production. Covers basic tools of television studio production and processes involved in creating a television program, including basic terminology and the duties of studio production technical positions. Co-requisite: MDIA 1385. 2.0 Credit Hours (taught only on the DSU main campus)

### **MDIA 1385 – Intro to Television Production Lab**

Lab portion of MDIA 1380 (requires 6 lab hours per week). Co-requisite: MDIA 1380. A \$30 lab fee required. 1.0 Credit Hour (taught only on the DSU main campus)

### **MGMT 1650 – Supervision Management**

Provides preparation in functions of organizations, communications, personnel management, leadership, motivation, employee appraisal, productivity, and career paths. Students will exercise management decision-making skills and problem solving techniques in-group discussion by using up-to-date case analysis. 3.0 Credit Hours

### **MGMT 2600 – Entrepreneurship**

Covers the advantages and disadvantages of owning and/or operating a business; includes necessary steps necessary in starting a small business. Students will construct a business prospectus to provide “hands on” exposure to the world of business. 3.0 Credit Hours

### **MKTG 2550 – Marketing Essentials**

Required of students pursuing a General Marketing degree; and open to other interested students. Covers the vocabulary and the basic understanding of the marketing concepts, including an overview of the process of target marketing, marketing opportunities, product and distribution decisions, integrated marketing communications and pricing policies, with an emphasis on practical decisions for small businesses. 3.0 Credit Hours

### **MUSC 1010 – Introduction to Music**

*Meets 1.0 high school Art credit requirement towards the 1.5 needed for graduation.*

*Fulfills General Education (GE) Fine Arts requirement at DSU.* An introductory survey of the elements, style periods, and standard repertoire of Western traditional art music. Emphasis given to improving the student’s listening skills. Includes lecture, demonstration, and discussion of representative musical examples and historical background on composers and musical genres. Assignments may include attendance at specific concerts, written projects, and individual listening. Students who successfully complete this course will gain a broader knowledge of musical elements and how they are characteristically used in each major style period, along with developing better listening skills through perception, understanding, and practice. 3.0 Credit Hours

## Dixie State University Concurrent Enrollment Course Descriptions 2018-2019

### **NURS 1005 – Certified Nursing Assistant**

Prepares students in the knowledge, skills, and responsibilities required for certification as a nursing assistant by the state of Utah. Course fee required. Corequisite: NURS 1007. FA, SP, SU. 0.0 Credit Hours (taught only at the Taylor Health Science bldg. and DSU Hurricane Education Center campuses)

### **NURS 1007 – Nursing Assistant Clinical**

Prepares students in the knowledge, skills, and responsibilities required for certification as a nursing assistant by the state of Utah. Course fee required. Corequisite: NURS 1007. FA, SP, SU. 4.0 Credit Hours

### **PHYS 1010 – Elementary Physics**

*Meets 1.0 high school Science credit requirement towards the 3.0 needed for graduation.*

*Fulfills General Education (GE) Physical Science requirement at DSU.* For students not majoring in Physics, other Sciences, or Engineering. Covers the basic concepts of physics in an historical perspective, providing many practical examples that demonstrate the role of physics in their everyday life. The PHYS 1015 lab is required for classes taught on high school campuses for Concurrent Enrollment credit. Co-requisite: PHYS 1015 is required for Concurrent Enrollment credit when taken on the high school campus and to meet Regents' Scholarship requirements, but NOT required if taken on the DSU campus. Prerequisite: MATH 1010 (grade C or higher); OR an ACT Math placement score of 23; OR an Accuplacer Math placement score of 89; OR an SAT Math placement score of 525 or higher. (School districts and the University Concurrent Enrollment Office have agreed to allow students to register for this class if they have successfully completed a high school or CE level biology, chemistry or math classes as noted on a high school transcript. Please meet with your high school counselor regarding this requirement.) 3.0 Credit Hours

### **PHYS 1015 – Elementary Physics Lab**

Lab portion of PHYS 1010. Co-requisite: PHYS 1010. If class is taken on the DSU campus, a \$50.00 lab fee is required. 1.0 Credit Hour

### **PHYS 1040 – Elementary Astronomy**

*Fulfills General Education (GE) Physical Science requirement at DSU.* Intended for students not majoring in Physics, other Sciences, or Engineering. Covers a general study of the solar system, including the formation of the solar system and a brief description of its parts. Also covers a brief history of astronomy and a general study of the known universe. Prerequisite: MATH 1010 (grade C or higher); OR an ACT Math placement score of 23 or higher; OR an Accuplacer Math placement score of 89 or higher; OR an SAT Math placement score of 525 or higher. Co-requisite: PHYS 1045. 3.0 Credit Hours (taught only on the DSU main campus)

### **PHYS 1045 – Elementary Astronomy Lab**

Lab portion of PHYS 1040. Co-requisite: PHYS 1040. A \$50.00 lab fee is required. 1.0 Credit Hour (taught only on the DSU main campus)



## Dixie State University Concurrent Enrollment Course Descriptions 2018-2019

### **PHYS 2010 – General Physics I**

*Fulfills General Education (GE) Physical Science requirement at DSU.* For students majoring in some Science programs, pre-Medical, pre-Dental, and other pre-professional programs. Covers the basics of mechanics, heat, and sound. First course in a 2-course semester sequence required for further study in science fields (additional courses are not covered with concurrent enrollment funding). Prerequisite: Completion of MATH 1050 and 1060 (grade C or higher). Co-requisite: PHYS 2015. 4.0 Credit Hours (taught only on the DSU main campus)

### **PHYS 2015 – General Physics I Lab**

Lab portion of PHYS 2010. Co-requisite: PHYS 2010. A \$50.00 lab fee is required. 1.0 Credit Hour (taught only on the DSU main campus)

### **POLS 1100 – American Government**

*Fulfills 1.0 credit toward the high school's 0.5 American Government requirement and the extra 0.5 Social Studies Elective requirement for graduation.*

*Fulfills the General Education (GE) American Institutions (Utah State Code R470) requirement at DSU.* Surveys the founding of the U.S. Government, the U.S. Constitution, and the Legislative, Executive, and Judicial branches of government. Also covers politics and elections, international relations, and national security. Helps students acquire a greater understanding of the federal system and of federalism. Employs a wide variety of instructional methods including lectures, student reports, discussions, and audio-visual materials. Successful students will demonstrate a reasonable understanding of the history, principles, form of government, and economic system of the United States. Prerequisite: An ACT Reading placement score 17 or higher; OR an Accuplacer placement score of 66 or higher; OR an SAT Reading placement score of 415 or higher. 3.0 Credit Hours

### **PSY 1010 – General Psychology**

*Fulfills 1.0 credit toward the high school's extra 0.5 Social Studies Elective credit requirement for graduation.*

*Fulfills General Education (GE) Social and Behavioral Sciences requirement for DSU.* For students in all disciplines who are interested in the fundamental scientific principles of behavior. Includes the study of learning, motivation, emotion, personality, mental disorders, treatment alternatives, and other related subjects as part of the course. Critical thinking will be explored in examining these aspects of behavior. Students will have frequent examinations and quizzes as part of the course requirements. 3.0 Credit Hours

### **PSY 1100 – Human Development through Lifespan**

*Fulfills General Education (GE) Social and Behavioral Sciences requirement for DSU.* For all students who are interested in knowing how and why people change through the course of a lifetime. Covers biological, cognitive, and social changes from prenatal development to late adulthood. Studies scientific methods of collecting and interpreting data, analyzes developmental events from various perspectives, and focuses on applying this knowledge to one's own development. Utilizes textbook reading, tests, quizzes, and journal writing. Dual listed with FSHD 1500 (students may take only one course for credit). 3.0 Credit Hours

## Dixie State University Concurrent Enrollment Course Descriptions 2018-2019

### **SOC 1010—Introduction to Sociology**

*Fulfills 1.0 credit toward the high school's extra 0.5 Social Studies Elective credit requirement for graduation.*

*Fulfills General Education (GE) Social and Behavioral Sciences requirement for DSU* Teaches what sociology is, what a sociologist does, and how sociology is applied, including the study of cultures, socialization, stratification, religion, families, organizations and social change through lectures, guest speakers, film, writing assignments, and exams. 3.0 Credit Hours

### **SPAN 3116—Pop Culture: Film, Media and Entertainment**

Considers the role that current film, media and entertainment play in the Spanish-speaking world. Students in this course will be exposed to the historical and cultural perspectives presented through these media. Proficiency goals: By the end of this course, students will be able to discuss familiar topics as well as some concrete social, academic, and professional topics. They will be able to talk in detail and in an organized way about events and experiences in various time frames, to confidently handle routine situations with an unexpected complication, and to share their point of view in discussions on some complex cultural and historical issues. Prerequisite: Dual Language Immersion and/or Spanish AP Exam (score 3 or higher). 3.0 Credit Hours (taught only on the SCHS campus)

### **SPAN 3117—Breaking Down Walls, Building Identities.**

This course considers how critical moments of change in the Spanish-speaking world have shaped the present by building new identities. Proficiency Goals: By the end of this course, students will be able to discuss familiar topics as well as some concrete social, academic, and professional topics. Students will utilize interpretive communication skills (listening and reading) in order to speak and write in detail and in an organized way about events and experiences in various time frames, to confidently handle routine situations with an unexpected complication, and to share their point of view in discussions on some complex cultural and historical issues. Prerequisite: Dual Language Immersion and/or Spanish AP Exam (score 3 or higher). 3.0 Credit Hours (taught only on the SCHS campus)

### **SPAN 3118—Literature and Film: Contemporary Issues**

In this course, students will critically analyze and interpret works of literature and film in Spanish to explore contemporary societal issues. Prerequisite: Dual Language Immersion and/or Spanish AP Exam (score 3 or higher). 3.0 Credit Hours (taught only on the SCHS campus)

## Dixie State University Concurrent Enrollment Course Descriptions 2018-2019

### **THEA 1013 – Introduction to Theatre**

*Meets 1.0 high school Art credit requirement towards the 1.5 needed for graduation.*

*Fulfills General Education (GE) Fine Arts requirement at DSU.* Not a performance class.

Emphasizes the appreciation skills needed to become a discriminating audience member of live theatre, including producing, play writing, directing, acting, designing and critiquing. Students must attend live theatre productions, and textbook readings, lecture, audio/video, demonstration, discussion, quizzes, tests, and exercises are also used. Students are required to attend live Dixie State College theatre productions. Successful completers will be more discerning and sensitive theatre audience members. 3.0 Credit Hours

### **THEA 1023 – Understanding Film**

*Fulfills General Education (GE) Humanities/Literature requirement at DSU.* For all students who enjoy watching films. Explores film making techniques, aesthetic issues, film history, and the function of film criticism, using a variety of films from the Silent Era to the present. Students examine, discuss, and write about various aspects such as plot, theme, character, and setting in order to become more discerning film viewers. Combined lecture / lab. 3.0 Credit Hours

### **WEB 1400 – Web Design I**

For students pursuing a degree in Computer and Information Technology. Hands-on experience in Internet development, including fundamental web development skills including HTML and CSS code, planning and organizing web sites, storyboarding, Internet development environments, and creating and organizing graphics for multiple types of online use. Also examines competitive online markets, technical issues, legal framework, as well as production issues associated with Internet development. A \$25.00 lab fee is required if taught on the DSU Campus. 3.0 Credit Hours