ACADeMIC SUPPORT (ASC)

ASC 1001 First Year Experience (1)
Strongly recommended for entering freshmen and transfer students with 024 credits. The course is designed to help students adapt to college life and become integrated into Dixie State College. Students will refine academic skills, create and foster social networks, learn about college resources, and explore different fields of study, degree options, and career opportunities. Open major sections will include information about choosing a major or area of study. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1026). Students may only take one FYE course for credit. FA, SP, SU

ASC 1020 Success Skills (1)
For students wanting to enhance their opportunities for success in and out of college. The course is designed to help students take charge of their own learning and develop competency in the skills essential for excelling. Lectures, discussion, and class projects focus on self-esteem, time management, reading textbooks, listening and notetaking, preparing for and taking tests. Through notebooks, projects and class goals, students will demonstrate improvement in the aforementioned skill areas. FA, SP

ASC 2990 Seminar in Academic Support (0.5 - 3)
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, either students request some type of nontraditional instruction, or an unanticipated opportunity for instruction presents itself. This seminar course provides a variable credit context for these purposes. As requirements, this seminar course must first be preapproved by the department chair; second, it must provide at least nine contact hours of lab or lecture for each credit offered; and third, it must include some academic project or paper (i.e., credit is not given for attendance alone). This course may include standard lectures, travel and field trips, guest speakers, laboratory exercises, or other nontraditional instruction methods. Note that this course in an elective and does not fulfill general education or program requirements. Fees may be required for some seminar courses and instructor permission will be optional at the request of the instructor.

ACCOUNTING (ACCT)

ACCT 1010 Applied Business Accounting (2)
For non-accounting majors, introduces basic bookkeeping practices through the complete accounting cycle for hospitality and service companies. FA, SP

ACCT 1800 Accounting Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

ACCT 1820 Accounting Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SU

ACCT 2010 Financial Accounting (3)
Required of students pursuing majors and emphases in the 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, accounts receivable, and inventory. FA, SP, SU

ACCT 2020 Managerial Accounting (3)
Required of students pursuing majors and emphases in the School of Business, and open to other interested students. Introduction to managerial accounting principles, including product costing, cost-volume-profit analysis, profit planning, capital budgeting, and financial statement analysis. Prerequisites: ACCT 2010; AND CIS 1200. FA, SP, SU

ACCT 3000 Accounting for Management (4)
For students in the AVIA program. Covers basic concepts and principles of financial and managerial accounting, focusing on the complete accounting cycle for service and merchandise companies, including depreciation, accounts receivable, inventory, product costing, cost-volume-profit analysis, profit planning, capital budgeting, and financial statement analysis. Prerequisites: CIS 2010; AND Admission to Dixie State College Aviation Management program. Offered based upon sufficient student need.

ACCT 3010 Intermediate Accounting I (3)
Required of students pursuing a degree or emphasis in Accounting. Covers conceptual framework of accounting; reviews the accounting process; reviews accounting statements including the income statement, balance sheet, and statement of cash flows, and includes an in-depth coverage of revenue recognition, accounting changes and error correction, and financial statement analysis. Course fee required. Prerequisites: ACCT 2020; AND Advanced Standing. FA, SP, SU

ACCT 3020 Intermediate Accounting II (3)
Required of students pursuing a degree or emphasis in Accounting. Covers accounting for current and long-term assets, including accounts receivable, inventories, operating assets, and investments; accounting for current and long-term liabilities, including contingent liabilities, debt securities, and leases; and accounting for equity transactions, including capital stock issuance and reacquisition, stock rights and options, and dividends. Course fee required. Prerequisites: ACCT 3010; AND Advanced Standing. FA, SP

ACCT 3050 Accounting Information Systems (3)
Required of students pursuing degrees in the School of Business. Covers information systems solutions to business problems and accounting systems concepts fundamental to the support of business processes in the operational, strategic, and decision making roles of management. Includes accounting systems design and development, control issues, system security, and maintenance. Emphasizes end user applications of management information systems, challenges of managing information technology, and using MIS as a strategic management tool. Course fee required. Prerequisites: ACCT 2020 (can be concurrently enrolled); AND CIS 2010 (can be concurrently enrolled); AND Advanced standing. FA, SP, SU
### ACCT 3300  Cost Accounting (3)
Required of students pursuing a degree or emphasis in Accounting. Covers the analysis of costs in a business organization for both internal and external use by management. Includes job order and product costing, standard variance analysis, profit performance analysis, labor costing, cost-volume-profit analysis, budgeting, and capital building. Course fee required. **Prerequisites:** ACCT 2020; AND Advanced standing. *FA, SP*

### ACCT 3400  Tax Accounting I (3)
Required of students pursuing a degree or emphasis in Accounting. Covers current federal and state income tax laws and the preparation of individual income tax returns, emphasizing analysis and interpretation of tax rules and their practical application as well as researching tax laws and rules. Course fee required. **Prerequisites:** ACCT 3010; AND Advanced standing. *FA, SP*

### ACCT 3500  Accounting Practicum Techniques (3)
Required for students pursuing a degree in Accounting. Provides hands-on instruction using QuickBooks and Peachtree Accounting software to prepare financial statements and related analysis. Payroll tax compliance, reporting, and planning will be covered, with emphasis on interpretation and practical application. Designed to provide Accounting majors with skills needed in ACCT 4600. Course fee required. **Prerequisites:** ACCT 3020, AND ACCT 3400. **Corequisite:** ACCT 4400. *FA, SP*

### ACCT 4030  Advanced Accounting (3)
Required of students pursuing a degree or emphasis in Accounting. Covers the nature and financial reporting aspects of these complex business transactions, including accounting for business combinations and consolidations, joint ventures and foreign currency translations and segment reporting, as well as the unique accounting and financial reporting issues facing not-for-profit organizations and governmental entities. Course fee required. **Prerequisites:** ACCT 3000 OR ACCT 4400; AND Advanced Standing. *FA, SP*

### ACCT 4100  Auditing (3)
Required of students pursuing a degree or emphasis in Accounting. Covers auditing standards, internal accounting, controls systems, compliance and substantive audit procedures applied to accounts and transaction cycles, and audit reports. Reviews the auditing concepts of materiality and risk, types of evidence and documentation, and introduces the ethical and legal responsibilities of the Certified Public Accountant. Course fee required. **Prerequisites:** ACCT 3020; AND Advanced standing. *FA, SP*

### ACCT 4400  Tax Accounting II (3)
Required of students pursuing a degree in Accounting. Examines concepts and methods of determining the federal tax liability of corporations, S-corporations, partnerships, estates, and trusts with special attention to the application of the law using electronic practitioner research tax databases and tax return preparation software. Course fee required. **Prerequisites:** ACCT 3400; AND Advanced standing. **Corequisite:** ACCT 3500. *FA, SP*

### ACCT 4600  Accounting Practicum (3)
Required for students pursuing a degree in Accounting. Provides an exceptional learning environment that places students in real-life, small business accounting practice and advising setting. Commercial accounting and tax software will be used to prepare financial statements and analysis and in tax compliance, return filing, and planning. **Prerequisites:** ACCT 3500. *FA, SP*

### ACCT 4890  Accounting Internship I (1-3)
Internship experiences for students pursuing a degree or emphasis in Accounting. Variable credit 1.0 – 3.0. **Prerequisites:** ACCT 2020; AND Advanced standing; AND Instructor permission. *FA, SP, SU*

### ACCT 4891  Accounting Internship II (1-3)
Internship experiences for students pursuing a degree or emphasis in Account-
es students what anthropology is, what anthropologists do, and how anthropology is applied. Course focuses on the sub-disciplines of anthropology including cultural anthropology, archeology, physical anthropology, and linguistics. SP

ART (ART)

ART - 1010 Intro to Art (3)
Fulfills General Education Fine Arts requirement. 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. FA, SP, SU

ART - 1020 Basic Drawing - Non-Majors (3)
For students with little or no prior training who wish to explore drawing. Introduces the five skills needed to draw any perceived object or person and explore design problems, including theory and skills in line, contour, shape, light and shadow, sighting angle, and proportion using pencil, charcoal, pen and ink, pastels, etc. SP

ART - 1050 Intro to Photography (3)
For all students interested in basic photographic technique and principles. Covers image, lighting, composition, basic camera operation and darkroom lab work. Hands-on course, allowing exploration of individual areas of interest. Requires out-of-class shooting assignments and access to non-digital SLR camera. Fulfills prerequisite for ART 2050. Course fee required. FA, SP

ART - 1100 Intro to Design (3)
Fulfills General Education Fine Arts requirement. Combined lecture/lab class for students with an interest in art and design, including fine art, graphic arts, interior design, computer art, photography, architecture, and more. Includes principles and elements of design using lectures, visual presentations, and studio experience. Course fee required. FA, SP, SU

ART - 1110 Drawing and Composition (3)
Studio class for Art students and others interested in drawing. Stresses fundamentals of image-based drawing, creativity, and elements of composition, using various techniques with black and white and color media in order to develop drawing skills in preparation for further Art study. Fulfills prerequisite to ART 2110. Course fee required. FA, SP, SU

ART - 1120 2-Dimensional Design (3)
Studio class for students pursuing fine art, graphic arts, interior design, computer art, photography, architecture, and other degrees, and open to other interested students. Covers principles and elements of two-dimensional design and analysis. Stresses critical thinking and studio exercises. Course fee required. SP

ART 1130 3-Dimensional Design I (3)
Studio class for students pursuing fine art, graphic arts, interior design, computer art, photography, architecture, and other degrees, and open to other interested students. Reviews fundamental design principles and techniques, including various design methods and their relationship to the conceptualization, development, and completion of three-dimensional design projects. Stresses critical thinking, analysis, and studio exercises. Course fee required. FA

ART 1800 Art Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. FA

ART 1810 Art Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

ART 1820 Art Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

ART 2050 Intermediate Photography (3)
Combined lecture/lab class for art students, and students interested in furthering their photography experience. Explores studio lighting, large format cameras, special effects, and advanced lab techniques through individual assignments, working toward portfolio creation. Fulfills prerequisite for ART 3050. Course fee required. Prerequisite: ART 1050. FA, SP

ART 2060 Digital Photography (3)
For students interested in the history, mechanics, and applications of digital photography as well as basic photographic techniques and compositional skills. Includes lecture, viewing the work of master photographer, in and out of class assignments, and in-class critiques. Each student must have access to digital camera. Dual listed with VT 2060. (Students may only take one course for credit). FA, SP

ART 2110 Intermediate Drawing (3)
Studio class for art students, and students interested in furthering their drawing experience. Develops concepts and skills necessary for expressive drawing, including design, composition, the development of a personal mode of expression, and appreciation of master drawings and contemporary art forms. Fulfills prerequisite for ART 3110. Course fee required. Prerequisite: ART 1110. SP

ART 2190 Intro to Sculpture (3)
Studio class for art students, and students interested in furthering their 3-dimensional design experience. Covers methods of sculpting with emphasis on design, self-expression, critical thinking, and analysis, using lecture, visual images, field trips to sculptors’ studios, and studio practice. Fulfills prerequisite for ART 3190. Course fee required. FA

ART 2210 Intro to Oil Painting (3)
Studio class for art students, and students interested in oil painting. Various techniques will be explored in lectures, demonstrations, and studio practice. Fulfills prerequisite to ART 3210 and ART 4220. Course fee required. FA, SP

ART 2250 Intro to Watercolor (3)
Studio class for art students, and students interested in watercolor painting. Explores creative approaches to watercolor, emphasizing image painting and experimentation using additive/subtractive elements of painting. Fulfills prerequisite to ART 3250. Course fee required. FA, SP
ART 2270  Phenomenon of Color (3)
For art students and others interested in color. Explores various color theories and their interpretation and application in visual arts and design media, as well as color interaction, applied color skills, optical phenomena, and development of the creative process. Fulfills prerequisite to ART 3430. Course fee required. SP

ART 2410  Intro to Life Drawing (3)
Studio class for art students and others interested in drawing the human form. Explores various drawing techniques, emphasizing greater accuracy in anatomical structure and form. Fulfills prerequisite to ART 3410. Course fee required. FA, SP

ART 2420  Intro to Portrait (3)
Studio class for art students and others interested in portraiture using pastels. Explores various pastel painting techniques. Successful completers will be able to capture a good likeness with realistic color. Fulfills prerequisite to ART 3420. Course fee required. FA, SP

ART - 2570  Intro to Ceramics (3)
Studio class for art students and others interested in learning about and creating ceramics. Covers various methods of creating in clay with emphasis on throwing, hand building, decorating, and glazing; as well as the history of ceramics and contemporary ceramics. Fulfills prerequisite to ART 3570. Course fee required. FA, SP, SU

ART 2900  Individual Studio Projects (1 - 4)
For students who have taken all the art classes in their area of emphasis or who desire in-depth study in specialized areas. Students are closely supervised by appropriate faculty in the design and successful completion of the course. The course is dependent upon a formal contractual arrangement with the faculty member that is submitted at the beginning of the semester in which coursework is undertaken, and is contingent upon the department chair’s approval. Students meet with the faculty mentor each week and provide progress reports for feedback. Students are required to meet the college requirement of 45 hours of work per credit. Variable credit 1.0 – 4.0. Repeatable up to 8 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP, SU

ART 2910  Art Travel Study: South California (2)
Guided field trip to Los Angeles area museums and attractions helps students appreciate and refine art skills and offers opportunities to view art masterpieces in order to develop aesthetic appreciation as well as critical and analytical skills as demonstrated in reflective written work. Repeatable up to 4 credits subject to graduation restrictions. Course fee required or separate travel costs assessed. FA, SP

ART 2920  Art Travel Study: North California (3)
Guided field trip to San Francisco and Bay area museums and attractions helps students appreciate and refine art skills and offers opportunities to view art masterpieces in order to develop aesthetic appreciation as well as critical and analytical skills as demonstrated in reflective written work. Repeatable up to 6 credits subject to graduation restrictions. Course fee required or separate travel costs assessed. SP

ART 2930  Art Travel Study: Europe (4)
Guided field trip to several European nations helps students appreciate and refine art skills and offers opportunities to experience other cultures and view art masterpieces in order to develop aesthetic appreciation as well as critical and analytical skills as demonstrated in reflective written work. Repeatable up to 8 credits subject to graduation restrictions. Course fee required or separate travel costs assessed. SU

ART 3050  Advanced Photography (3)
Studio class for art students, and students interested in furthering their photography experience. Introduces studio practices and lighting for portraits and commercial products, as well as editorial skills and portfolio preparation. Course fee required. Prerequisite: ART 2050. SP

ART 3060  Digital Commercial Studio Photo (3)
Studio class for art students and others interested in further digital photography experiences. Includes work on individual studio lighting projects while gaining professional insights in studio photography and photo art direction. Students will work on multiple projects simultaneously. Course fee required. Dual listed with VT 3060 (students may only take one course for credit). Prerequisite: ART 1020; or ART 1050; or ART 1110; or ART 2060. Offered based on sufficient student need.

ART 3110  Creative Perspective Drawing (3)
Studio class for art students, and students interested in furthering their drawing experiences with more individualized conceptual and subject variation. Fulfills prerequisite for ART 4110. Course fee required. Prerequisite: ART 2110. FA

ART 3130  3-D Design II (3)
Combined lecture / studio class for art students and others interested in art and design. Reviews fundamental design principles and techniques. Covers various design methods and their relationship to the conceptualization, development, and completion of three-dimensional design projects while emphasizing critical thinking and analysis. Course fee required. Prerequisite: ART 1130. SP

ART 3190  Intermediate Sculpture (3)
Studio class for art students, and students interested in further 3-dimensional design experience. Includes further exploration of sculpting methods with emphasis on design, self-expression, critical thinking, and analysis, using lecture, visual images, field trips to sculptors’ studios, and studio practice. Fulfills prerequisite for ART 4190. Course fee required. Prerequisite: ART 2190. SP

ART 3210  Head & Figure Painting (3)
Studio class for art students and others interested in further painting experiences. Covers constructing a painting, including steps and techniques such as drawing values; and applying dark, mid-, and light colors. Successful completers will be able to paint recognizable images and continue study in the medium. Successful completers will paint a portrait showing a likeness and be prepared for further study. Fulfills prerequisite for ART 4210. Course fee required. Prerequisite: ART 2210. FA, SP

ART 3250  Intermediate Watercolor (3)
Studio class for art students, and students interested further watercolor painting. Explores creative approaches to watercolor, emphasizing image painting and experimentation using additive / subtractive elements of painting. Fulfills prerequisite to ART 4250. Course fee required. Prerequisite: ART 2250. SP

ART 3410  Intermediate Life Drawing (3)
Studio class for art students and others interested in further study in drawing the human form. Explores various drawing techniques, emphasizing greater accuracy in anatomical structure and form. Fulfills prerequisite for ART 4410. Course fee required. Prerequisite: ART 2410. SP

ART 3420  Intermediate Portrait Drawing (3)
Studio class for art students, and students interested further watercolor painting. Further explores various pastel painting techniques. Successful completers will be able to capture a good likeness with realistic color. Course fee required. Prerequisite: ART 2420. FA, SP

ART 3430  Media Experimentation (3)
Combined lecture / studio class for art students and students interested in multimedia experimentation. Includes exploration of drawing, painting, sculpture, and photo-computer media, using processes to create innovations in 2-D, 3-D,
and installation presentations. Course fee required. **Prerequisite:** ART 2270. **SP**

**ART 3570 Intermediate Ceramics (3)**

Studio class for art students and students interested in further ceramics study. Emphasizes wheel and hand-built works enhancing size, shape, construction, decoration, form, and function, as well as study of professional work and glaze calculation. Successful completers will produce exhibit-quality ceramic work and fulfill the prerequisite for ART 4570. Course fee required. **Prerequisite:** ART 2570. **FA, SP, SU**

**ART 4110 Expressive Drawing (3)**

Studio class for art students and students interested in further study of drawing. Explores principles of linear perspective, space, and composition application. Repeatable up to 6 credits subject to graduation restrictions. Course fee required. **Prerequisite:** ART 3110. **SP**

**ART 4190 Advanced Sculpture (3)**

Studio class for art students, and students interested in further 3-dimensional design experience. Includes further exploration of sculpting methods with emphasis on design, self-expression, critical thinking, and analysis, using lecture, visual images, field trips to sculptors’ studios, and studio practice. Repeatable up to 6 credits subject to graduation restrictions. Course fee required. **Prerequisite:** ART 3190. **SP**

**ART 4210 Adv Head & Figure Painting (3)**

Studio class for art students and students interested in further painting experiences. Covers constructing a painting, including steps and techniques such as drawing shapes; using size, angle, and position; drawing values; and applying dark, middle, and light colors. Successful completers will be able to paint recognizable images and continue study in the medium. Successful completers will paint a portrait showing a likeness and be prepared for further study. Repeatable up to 6 credits subject to graduation restrictions. Course fee required. **Prerequisite:** ART 3210. **FA, SP**

**ART 4220 Advanced Painting, Landscape (3)**

Studio class for art students and students interested in landscape painting experiences. Concentrates on forming and structuring ideas for proper expression of visual literacy, including on site (plein air) painting as weather permits. Course fee required. **Prerequisite:** ART 2210. **SP**

**ART 4250 Advanced Watercolor (3)**

Studio class for art students, and students interested further watercolor painting. Explores creative approaches to watercolor, emphasizing image painting and experimentation using additive/subtractive elements of painting. Repeatable up to 6 credits subject to graduation restrictions. Course fee required. **Prerequisite:** ART 3250. **SP**

**ART 4410 Advanced Life Drawing (3)**

Studio class for art students and others interested in further study in drawing the human form. Explores various drawing techniques, emphasizing greater accuracy in anatomical structure and form. Repeatable up to 6 credits subject to graduation restrictions. Course fee required. **Prerequisite:** ART 3410. **SP**

**ART 4570 Advanced Ceramics (3)**

Studio class for art students and students interested in further ceramics study. Emphasizes wheel and hand-built works enhancing size, shape, construction, decoration, form, and function, as well as advanced study of professional work and glaze calculation. Successful completers will produce a series of exhibit-ready ceramic work. Repeatable up to 6 credits subject to graduation restrictions. Course fee required. **Prerequisite:** ART 3570. **FA, SP**

**ART 4950 Art Internship (1 - 3)**

For Integrated Studies majors pursuing an emphasis in Art who have completed at least one upper-division Art studio class. Designed to increase students’ competencies and initiate networking, exposes students to professional art affiliations inclusive of art museums, galleries, artist studios, and various art groups and committees. Variable credit 1.0 – 3.0. Repeatable for credit up to 6 credits subject to graduation restrictions. **Prerequisites:** Integrated Studies major (with an Art emphasis); AND Advanced standing. **FA, SP, SU**

**ART HISTORY (ARTH)**

**ARTH 2710 Art History I (3)**

Fulfills General Education Fine Arts requirement. Historical study of Art ranging from prehistoric through classic periods; covers art, culture, and documentary history of specific nations and peoples. Discusses all aspects of visual art, including painting, sculpture, architecture, and clothing. **FA**

**ARTH 2720 Art History II (3)**

Fulfills General Education Fine Arts requirement. Historical study of Art ranging from the Renaissance, Baroque, Neoclassic, Romantic, Impressionist, early Modern, Pop, through contemporary periods. Discusses all aspects of visual art, including various media and photography, as well as emphasis on the work of contemporary women artists and artists of color. **SP**

**ARTH 3030 Medieval Art (3)**

For students interested in advanced study of Art History. Covers periods beginning with the fall of the Roman Empire through early Christian, Byzantine, Insular, Romanesque, and Gothic art, as well as relevant historical and religious contexts. **SP**

**ARTH 3080 Nineteenth Century Art (3)**

For students interested in advanced study of Art History. Begins with the development of Neoclassicism at the end of the eighteenth century, through the periods of Romanticism, Realism, Impressionism, Post Impressionism, Arts and Crafts, Art Nouveau, and Symbolism, as well as the historical and literary context. **FA**

**ARTH 3090 Twentieth Century Art (3)**

For students interested in advanced study of Art History. Covers early Modern movements of Matisse and Fauvism through Cubism, Futurism, Dadaism, Surrealism, through Post Modernism, as well as the historical and literary context. **SP**

**AUTOMOTIVE TECHNOLOGY (AUTO)**

**AUTO 1100 Automotive Fundamentals (3.5)**

For students with an interest in the basics of automotive technology in order to understand the function and operation of both components and systems while promoting pride in the trade and the role of the certified automobile technician. Covers design, construction, and operation of all major automotive systems. Combined lab and lecture. No tools are required. **SP**

**AUTO 1120 Suspension & Steering (3)**

For students pursuing a certificate or degree in Automotive Mechanics, and open to other interested students. Covers diagnosis, adjustment and repair of various suspension and steering units to prepare students for Automotive Service Excellence (ASE) certification test and for entry-level positions. Minimal tools required. Suggested prerequisite: AUTO 1100, Automotive Fundamentals. **Corequisite:** AUTO 1125. **FA**

**AUTO 1125 Suspension & Steering Lab (3)**

Laboratory portion of AUTO 1120, Suspension & Steering. Covers diagnosis,
adjustment and repair of various suspension and steering units to prepare students for Automotive Service Excellence (ASE) certification test and for entry-level positions. Minimal tools required. Requires at least 6 hours in the lab each week. Lab fee required. Corequisite: AUTO 1120. FA

AUTO 1130 Brake Systems (3)
For students pursuing a certificate or degree in Automotive Mechanics, and open to other interested students. Covers diagnosis and repair of brakes and ABS or anti-lock systems to prepare students for the Automotive Service Excellence (ASE) certification test and entry-level positions. Also covers brake systems in relation to hybrid vehicle technology. Corequisite: AUTO 1135. SP

AUTO 1135 Brake Systems Lab (3)
Laboratory portion of AUTO 1130 Brake Systems. Includes actual diagnosis and repair of all types of automobile brake systems, including hybrids, following National Automotive Technicians Education Foundation (NATEF) task list requirements. Safety and tool usage are stressed. Requires at least 6 hours in the lab each week. Lab fee required. Corequisite: AUTO 1130. SP

AUTO 1320 Engine Repair (3)
For students pursuing a certificate or degree in Automotive Mechanics, and open to other interested students. Covers principles of construction and operation of modern automotive engines and practical repair applications to prepare students for Automotive Service Excellence (ASE) certification test and for entry-level positions. Minimal tools required. Suggested prerequisite: AUTO 1100, Automotive Fundamentals. Corequisite: AUTO 1325. FA

AUTO 1325 Engine Repair Lab (3)
Laboratory portion of AUTO 1320, Engine Repair. Covers principles of construction and operation of modern automotive engines and practical repair applications to prepare students for Automotive Service Excellence (ASE) certification test and for entry-level positions. Requires at least 6 hours in the lab each week. Minimal tools required. Lab fee required. Corequisite: AUTO 1320. FA

AUTO 1430 Manual Drive Trains (3)
For students pursuing a certificate or degree in Automotive Mechanics, and open to other interested students. Covers the diagnostic and repair skills needed for manual transmissions, clutch systems, differentials, transfer cases, and drive lines in automobiles to prepare students for Automotive Service Excellence (ASE) certification test and for entry-level positions. Corequisite: AUTO 1435. SP

AUTO 1435 Manual Drive Train Lab (3)
Laboratory portion of AUTO 1430 Manual Drive Trains. Includes actual diagnosis and repair of manual drive train systems for all types of automobile brake systems, including hybrids, following National Automotive Technicians Education Foundation (NATEF) task list requirements. Safety and tool usage are stressed. Requires at least 6 hours in the lab each week. Lab fee required. Corequisite: AUTO 1430. SP

AUTO 1440 Automatic Transmissions (3)
For students pursuing a certificate or degree in Automotive Mechanics, and open to other interested students. Covers diagnosis and repair of automatic transmissions and drive trains to prepare students for Automotive Service Excellence (ASE) certification test and for entry-level positions. Minimal tools required. Suggested prerequisite: AUTO 1100, Automotive Fundamentals. Corequisite: AUTO 1445. FA

AUTO 1445 Automatic Transmissions Lab (3)
Laboratory portion of AUTO 1440, Automatic Transmissions. Covers diagnosis and repair of automatic transmissions and drive trains to prepare students for Automotive Service Excellence (ASE) certification test and for entry-level positions. Minimal tools required. Requires at least 6 hours in the lab each week. Lab fee required. Corequisite: AUTO 1440. FA

AUTO 1500 Basic Automotive Maintenance (2)
Open to all students interested in obtaining knowledge on car maintenance. Described to give students knowledge and basic skills in automotive maintenance and also provides information about purchasing, liability, and legal rights of the automobile owner. Successful completers will have the knowledge and skills necessary to aid them in proper car maintenance. Combined lab and lecture. FA, SP

AUTO 1800 Automotive Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. FA

AUTO 1810 Automotive Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

AUTO 1820 Automotive Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SU

AUTO 2100 Automotive Electrical Systems (3)
For students pursuing a certificate or degree in Automotive Mechanics, and open to other interested students. Covers electrical theory and diagnostic skills for automotive computer systems. Emphasis is placed on basic electric, automotive batteries, the starting system, wiring repair, and electrical diagnostic procedures to prepare students for the Automotive Service Excellence (ASE) certification test and entry-level positions. Corequisite: AUTO 2105. FA, SP

AUTO 2105 Auto Electrical Systems Lab (3)
Laboratory portion of AUTO 2100 Automotive Electrical Systems. Includes diagnosis and repair of electrical system components (batteries, starting system, charging system, wiring repair, etc.) associated with automobiles, including hybrids, following National Automotive Technicians Education Foundation (NATEF) task list requirements. Safety and tool usage are stressed. Requires at least 6 hours in the lab each week. Lab fee required. Corequisite: AUTO 2100. FA, SP

AUTO 2220 Engine Performance I (3)
For students pursuing a certificate or degree in Automotive Mechanics, and open to other interested students. Covers identification and location of electrical and vacuum components using schematics and shop manuals, including diagnosis and proper repair of ignitions and computer controls on modern automobiles to prepare students for Automotive Service Excellence (ASE) certification test and for entry-level positions. Minimal tools required. Suggested prerequisite: AUTO 1100, Automotive Fundamentals. Corequisite: AUTO 2225. FA
### AVIATION MANAGEMENT (AvIA)

**AvIA 2170 Ground: Private Pilot** (3)

Instruction available at student expense through any licensed instruction school covering principles of flight, aircraft and engine operation, weather, navigation, radio aids to navigation, radio communications, and federal air regulations in preparation for FAA Private Pilot written exam. Prerequisites: Admission to Dixie State College Aviation Management program; and AvIA 2170 (can be concurrently enrolled). Not offered 2011-2012.

**AvIA 2180 Private Pilot License** (3)

Instruction leading to FAA Private Pilot License available at student expense through any licensed instruction school. Prerequisites: Admission to Dixie State College Aviation Management program; and AVIA 2170 (can be concurrently enrolled). Not offered 2011-2012.

**AvIA 2370 Ground: Instrument Pilot** (2)

Instruction available at student expense through any licensed instruction school covering ground school in preparation for FAA oral and written examinations required for instrument rated pilots. Prerequisites: Admission to Dixie State College Aviation Management program; and AVIA 2170; and AVIA 2180. Corequisite: AVIA 2380. Not offered 2011-2012.

**AvIA 2380 Flight: Instrument Rating** (2)

Instruction available at student expense through any licensed instruction school. FAA approved flight training program introducing requirements for the issuance of the Instrument Pilot Airplane Rating. Prerequisites: Admission to Dixie State College Aviation Management program; and AVIA 2170; and AVIA 2180. Corequisite: AVIA 2370. Not offered 2011-2012.

**AvIA 3010 Aviation Principles** (3)

Required of students in the Aviation Management program. Covers basic principles and concepts of the general and commercial aviation industry, including aviation history, economics and business models (government regulated, legacy carrier, low-cost carrier, regional, foreign, etc.), and industry pricing. Prerequisite: Admission to the Dixie State College Aviation Management program. Not offered 2011-2012.

**AvIA 3015 Principles of Leadership** (3)

Required of students in the Aviation Management program. Covers basic concepts and principles of effective leadership and introduces the variety of practical tools for leadership development, including methodologies for creating, maintaining, and utilizing a business work culture, and practical exercise of decision-making skills and problem-solving techniques through the use of group discussions and up-to-date case analysis. Prerequisite: Admission to the Dixie State College Aviation Management program. Not offered 2011-2012.

**AvIA 3020 Aviation Regulations & Safety** (3)

This course will cover the full breadth of aviation safety issues. Topics will include the importance of safety in the aviation industry and a study of aviation accidents and prevention models. Management of safety-related issues from a public relations and media perspective, as well as crisis management principles will be covered. Prerequisite: Admission to the Dixie State College Aviation Management program. Not offered 2011-2012.

**AvIA 3030 Aviation Economics** (4)

Required of students in the Aviation Management program. Covers basic principles of micro and macro economics and offers an introduction to the way economic theory explains scarcity, consumer and producer choice, competition and monopoly, labor, capital, resource markets, antitrust and other government relations, income distribution, supply and demand, the role of government, international trade and finance, inflation, depression, economic growth, and government debt in an effort to assist students in understanding the ideas, processes, dynamics, and institutions that underlie the social and economic system and make the American economy work. Prerequisite: Admission to the Dixie State College Aviation Management program. Not offered 2011-2012.

**AvIA 3040 Aviation Finance** (3)

Required of students in the Aviation Management program. Covers administrative and financial aspects of aviation management, including financial and accounting strategies, financial analysis and planning; budgeting; short, intermediate, and long term financing; leveraging; revenue and expense sources; and economic impacts of aviation operations. Prerequisite: Admission to the Dixie State College Aviation Management program. Not offered 2011-2012.

**AvIA 3050 Aviation Law** (3)

Required of students in the Aviation Management program. Covers basic principles of the general and commercial aviation industry, including aviation history, economics and business models (government regulated, legacy carrier, low-cost carrier, regional, foreign, etc.), and industry pricing. Prerequisite: Admission to the Dixie State College Aviation Management program. Not offered 2011-2012.

**AvIA 3070 Ground: Commercial Pilot** (2)

Instruction available at student expense through any licensed instruction school. Commercial flight operations including performance, cross country planning, advanced systems operations, complex airplanes, and flight maneuvers. Prerequisites: Admission to the Dixie State College Aviation Management pro-
AVIA 3180 Commercial Pilot License (3) Instruction leading to FAA Commercial Pilot License available at student expense through any licensed instruction school. Prerequisites: Admission to the Dixie State College Aviation Management program; AND AVIA 2170; AND AVIA 2180; AND AVIA 3170 (can be concurrently enrolled in AVIA 3170). Not offered 2011-2012.

AVIA 4010 Aviation Accounting (3) Required of students in the Aviation Management program. Focuses on accounting and financial principles unique to the aviation industry, including asset management, revenue management, debt financing, financial reporting requirements, regulatory accounting issues, aircraft maintenance management, and unique departmental accounting issues. Prerequisites: Admission to the Dixie State College Aviation Management program; AND ACCT 3000. Not offered 2011-2012.

AVIA 4020 Aviation Marketing (3) For students in the Aviation Management program. Covers marketing strategies in the aviation industry, focusing on successful marketing efforts in a broad spectrum of aviation-related environments, including advertising, public affairs, image/brand management, and business recruiting in both airline and airport settings. Prerequisites: AVIA 3010; AND MKTG 3010; AND Advanced standing. Not offered 2011-2012.

AVIA 4200 Aviation Internships (1 - 3) Internship experiences for students pursuing a degree in Aviation Management. Prerequisites: Advanced standing; AND Instructor permission. Not offered 2011-2012.

AVIA 4800 Aviation Management (3) For students in the Aviation Management program. Covers full spectrum of aviation management, including airport/airline management-related issues, airport/airline operations, general aviation/fixed-base operations, customer service, aircraft maintenance, flight operations, leadership development, as well as industry pricing and production principles with a focus on revenue management. Prerequisites: AVIA 3010; AND AVIA 3020; AND AVIA 3030; AND AVIA 4010; AND AVIA 4020. Not offered 2011-2012.

BIOL 1001 Intro to the Biology Major (1) A First Year Experience course created to help students succeed in the biology major, and assist new freshmen and returning students to make a successful transition to being a college student. The primary objective of this course is to provide students with the resources they will need to succeed in their college careers, particularly in the biology major. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1026). Students may only take one FYE course for credit. FA, SP

BIOL 1010 General Biology (3) Fulfills General Education Life Sciences requirement. 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. Lab course recommended but not required. Recommended corequisite: BIOL 1015. FA, SP, SU

BIOL 1015 General Biology Lab (1) Lab course designed recommended but not required 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. Lab fee required. Corequisite: BIOL 1010. FA, SP

BIOL 1100 General Botany (3) Fulfills General Education Life Sciences requirement. Introductory course in botany. Emphasizes the scientific method; cell processes including basic chemistry, cellular level structure and function; principles of inheritance; photosynthesis; evolution and ecology; historical and methods of taxonomy focusing on the plant kingdom. Corequisite: BIOL 1105. FA

BIOL 1105 General Botany Lab (1) Lab portion of BIOL 1100. Lab fee required. Corequisite: BIOL 1100. FA

BIOL 1200 Human Biology (1) Covers basic anatomy and physiology of humans for non-science majors. Focuses on the general structure and function of the human body including tissues, organs, and systems. Through lecture, videos, models, quizzes, and tests, students become familiar with how the human body functions. Prerequisite: BIOL 1010 or BIOL 1610. FA

BIOL 1300 Evolution & Ecology (1) Focuses on the fundamental principles of evolution and ecology. Evolution is emphasized as a unifying theme for all of Biology, as an explanation for both the unity and diversity of life. Students will learn how ecology provides the environmental context for adaptive evolution, as well as how our understanding of environmental processes relates to modern-day environmental concerns. Fulfills General Education Life Sciences and Laboratory Sciences requirements if these classes are also completed: BIOL 2320, BIOL 2325, BIOL 2420, BIOL 2425. FA, SP

BIOL 1610 Principles of Biology I (4) Fulfills General Education Life Sciences requirement. 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. Corequisite: BIOL 1615. FA, SP, SU

BIOL 1615 Principles of Biology I Lab (1) Lab portion of BIOL 1610. Lab fee required. Corequisite: BIOL 1610. FA, SP, SU

BIOL 1620 Principles of Biology II (4) Required of all Biology majors, including pre-health science, pre-nursing, pre-veterinary, pre-medical, pre-dental, and other pre-professional students. Continues BIOL 1610; emphasizes Evolution, diversity processes, animal structure and function, plant structure and function. Prerequisite to many other Biology courses. Prerequisite: BIOL 1610. Corequisite: BIOL 1625. FA, SP

BIOL 1625 Principles of Biology II Lab (1) Lab portion of BIOL 1620. Lab fee required. Prerequisite: BIOL 1615. Corequisite: BIOL 1620. FA, SP, SU

BIOL 1800 Biology Work Experience (1 - 3) Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative
edication credit courses or 12 cooperative education credits. FA

**Biol 1810** Biology Work Experience (1-3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

**Biol 1820** Biology Work Experience (1-3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SU

**Biol 2030** Principles of Genetics (4)
Required of all Biology majors, including pre-medical, pre-dental, pre-veterinary, and other pre-professional students. Exploration of classical, molecular, and evolutionary genetics, including Mendelian principles of inheritance, gene linkage and mapping, pedigree analysis, cytogenetics, structure and chemistry of genes, gene expression, DNA cloning and sequencing, mutations and their repair, non-Mendelian inheritance, quantitative inheritance, and population genetics. Successful completers will have a firm understanding of basic genetics and awareness of the latest research in genetics. Prerequisites: Math 1010 or higher; and (Biol 1010 OR Biol 1610). FA, SP

**Biol 2060** Principles of Microbiology (3)
For health science, pre-pharmacy and other allied health professionals who need an understanding of microbiology. Focuses on essentials of microbiology, including disease control, nomenclature, function of immune system, pathologies, causes and cures, and laboratory methods for safely studying microorganisms. Successful completion of the course gives students an understanding of microbes and their relationship to the human system and health. Prerequisite: Chem 1110. Corequisite: Biol 2065. FA, SP, SU

**Biol 2065** Principles of Microbiology Lab (1)
Lab portion of Biol 2060, stressing safety; sterile technique; methods of staining; preparing, culturing, and transferring microorganisms; and identification of an unknown. Lab fee required. Prerequisite: Chem 1115. Corequisite: Biol 2060. FA, SP, SU

**Biol 2220** General Ecology (3)
Required of all Biology majors. Focuses on the nature and development of local, regional, and world communities and their relation to environmental factors controlling them. Covers organisms and their geographical distribution, interorganismic interactions, and speciation, as well as ecological methods of study in aquatic and terrestrial ecosystems. Prerequisite: Biol 1610. Corequisite: Biol 2225. FA, SP

**Biol 2225** General Ecology Lab (1)
Lab portion of Biol 2220. Includes frequent field trips. Lab fee required. Prerequisite: Biol 1615. Corequisite: Biol 2220. FA, SP

**Biol 2320** Human Anatomy (3)
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 Biol 1010, Biol 1610, or equivalent recommended prior to enrolling. Course. Recommended prerequisite: Biol 1010, Biol 1610, or equivalent course. Corequisite: Biol 2325. FA, SP, SU

**Biol 2325** Human Anatomy Lab (2)
Lab portion of Biol 2320. Includes cadaver study. Successful completion of Biol 1015, Biol 1615, or equivalent lab course recommended prior to enrolling. Lab fee required. Recommended prerequisite: Biol 1015, Biol 1615, or equivalent lab course. Corequisite: Biol 2320. FA, SP, SU

**Biol 2350** Fall Flora (2)
For students interested in learning: “What kind of plant is that?” Teaches plant classification of trees and shrubs, including how to collect and identify vascular plants, primarily trees and shrubs, using manuals. Corequisite: Biol 2355. FA

**Biol 2355** Fall Flora Lab (1)
Lab portion of Biol 2350, requires frequent field trips. Lab fee required. Corequisite: Biol 2350. FA

**Biol 2360** Spring Flora (2)
For students interested in learning: “What kind of plant is that?” Teaches plant classification of spring wild flowers, including how to collect and identify vascular plants, primarily wild flowers, using manuals. Corequisite: Biol 2365. SP

**Biol 2365** Spring Flora Lab (1)
Lab portion of Biol 2360, requires frequent field trips. Lab fee required. Corequisite: Biol 2360. SP

**Biol 2370** Economic Botany (3)
Focuses on plants and plant products useful to humans, including fibers, forest products, tanning and dying material, rubber and other latex products, gums and resins, essential oils, fats and waxes, sugar, starches, and cellulose products, medicinal plants, food plants, spices, and beverage plants, and many others. Prerequisite: Biol 1010, or Biol 1610. Offered upon sufficient student need.

**Biol 2400** Plant Kingdom (3)
Fulfills General Education Life Sciences requirement. Surveys the Divisions traditionally studied by botanists, including structure, reproduction, systematic, and evolution of the major prokaryotic, fungal, algal, and plant groups. Corequisite: Biol 2405. FA

**Biol 2405** Plant Kingdom Lab (1)
Lab portion of Biol 2400. Lab fee required. Corequisite: Biol 2400. FA

**Biol 2420** Human Physiology (3)
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 heart 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 Biol 1010, Biol 1610, or equivalent recommended prior to enrolling. Recommended prerequisite: Biol 1010, Biol 1610, or equivalent course. Corequisite: Biol 2425. FA, SP, SU

**Biol 2425** Human Physiology Lab (1)
Lab portion of BIOL 2420. Lab fee required. Successful completion of BIOL 1015, BIOL 1615, recommended prior to enrolling. Recommended prerequisite: BIOL 1015, BIOL 1615, or equivalent lab course. Corequisite: BIOL 2420. FA, SP, SU

**BIOL 3000 Rural Health Scholars (1)**
Helps prepare pre-dental, pre-pharmacy, pre-physician assistant, pre-optometry, and other undergraduate health students for entry into professional schools. Includes opportunities to hear guest speakers, participate in health-related service learning projects, gain patient exposure and research opportunities, perform job shadowing and volunteer work, visit Mexican and/or Navajo medical clinics, receive help with professional school applications, practice mock interviews, receive mentoring, one-on-one advisement/evaluation, and much more. Students must be willing to adhere to a student contract and participate in scheduled activities. Maximum 2 credits may be applied toward Bachelor of Science in Biology degree. Course is graded pass/fail. Repeatable up to 8 credits subject to graduation and program restrictions. Course fee required. FA, SP

**BIOL 3010 Biological Evolution (3)**
Required of all Biology majors. Focuses on evolution as a fundamental principle of Biology. Emphasizes evidence for evolution in nature; evolutionary change, including elementary population genetic analysis; evolution of major groups of life forms; natural selection and speciation and their importance in establishing the life forms on Earth. Prerequisites: BIOL 1620; and BIOL 1625; and BIOL 2030. FA, SP

**BIOL 3020 Cell Biology (3)**
Can be used to fulfill a core requirement for Biology majors. Incorporating biochemistry and molecular biology, provides a solid background in cell biology, a dynamic area of study in biology that merges studies of cell structure and cell function. Includes the basics of cell structure, function, metabolism, signaling, and communication, using textbook material and primary literature sources. Successful completers will be prepared for further study in histology, pathophysiology, and developmental biology. Prerequisites: BIOL 1610; and CHEM 1220. Corequisite: BIOL 3025. SP

**BIOL 3025 Cell Biology Lab (1)**
Lab portion of BIOL 3020, introducing modern cell biology techniques. Lab fee required. Prerequisites: BIOL 1615, and CHEM 1225. Corequisite: BIOL 3020. SP

**BIOL 3050 Head/Neck/Oral Hist Embry (4)**
Covers the structure and anatomical systems of head and neck. Emphasizes bones, muscles, blood supply, glandular tissue, TMJ, nervous system, lymphatic’s, fascia and spaces, dental infection, the eye, the ear, and local dental anesthesia that have dental significance. Comprehensive presentation of embryonic and general histological fetal and postnatal development of tissues and structures of the head and oral cavity, including tooth development. Multiple listed with DHYG 2072; students may only take one course for credit. Prerequisites: BIOL 2320 and BIOL 2325. FA

**BIOL 3100 Bioethics (3)**
Open to all students. An examination of the recent advancements in advances in advances in biology and ethical sciences in relevant to basic ethical theories and traditional value systems, focusing on human reproduction, medical care, genetic engineering, humans as experimental subjects, environmental issues, and death and dying. Prerequisite: BIOL 1610, or BIOL 1010. FA (Odd years)

**BIOL 3110 Scientific Writing (2)**
Required of students pursuing a Bachelor’s Science in Biology degree. Augments research, writing, and communication skills of science majors. Successful completers will effectively use scientific literature databases; effectively find, read, understand, and critically assess primary scientific literature; write in a clear, concise, scientific style that will be required in upper-level science classes, including Senior Thesis, and in graduate study or future professions.

Completion of an upper-division Biology class that required a term paper or substantial lab report is highly recommended before enrolling in this course. Prerequisites: ENGL 2010 (can be concurrently enrolled) and BIOL 1610. FA

**BIOL 3140 Comparative Vertebrate Anatomy (3)**
Fulfills a program elective for all Biology majors. Covers the evolution of vertebrate design, surveying the tissue types that have changed to allow vertebrates to perform specific functions; emphasizing bones and muscles along with special tissues such as feathers, fur, and scales; and highlighting comparisons between groups of vertebrates to reveal different evolutionary pathways. Successful completers will clearly understand and be able to explain major evolutionary trends among vertebrates as well as specific instances where particular adaptations have allowed special functions to develop very efficiently like flying, digging, deep diving, and great running speed. BIOL 3010 is strongly recommended before enrolling in this course. Recommended prerequisite: BIOL 3010. Prerequisite: BIOL 1620. Corequisite: BIOL 3145. SP (Even years)

**BIOL 3145 Comparative Vert Anatomy Lab (1)**
Lab portion of BIOL 3140. Requires dissection of representative vertebrates to learn the 3-dimensional anatomy, emphasizing similarities and differences among large vertebrate groups. Successful completers will be able to dissect vertebrates and identify major anatomical features. Lab fee required. Prerequisite: BIOL 1625. Corequisite: BIOL 3140. SP (Even years)

**BIOL 3150 Introduction to Biometry (2)**
Required of students pursuing a Bachelor of Science in Biology. Includes experimental design, methods of data collection, statistical concepts, probability, testing of hypotheses, graphical techniques, estimation, discrete and continuous distributions, chi-square tests, linear regression and correlation, analysis of variance, and parametric and non-parametric tests. Successful completers will be able to identify and apply the proper statistical test(s) in the analysis of given data sets. Prerequisite: Math 1050. Corequisite: BIOL 3155. FA, SP

**BIOL 3155 Intro to Biometry Lab (1)**
Lab portion of BIOL 3150, designed to provide opportunities to practice and apply statistical concepts. Lab fee required. Corequisite: BIOL 3150. FA, SP

**BIOL 3200 Invertebrate Zoology (3)**
Fulfills a program elective for all Biology majors. General study of invertebrate animal phyla including sponges, cnidarians, flatworms, roundworms, rotifers, mollusks, annelids, arthropods, echinoderms, and others, emphasizing characteristics, variations in body plans, life cycles, adaptations, and evolutionary relationships among major groups of animals. Successful completers will identify major invertebrate animal phyla and discuss evolutionary trends pertaining to them. Prerequisite: BIOL 1620. Corequisite: BIOL 3205. FA (Even years)

**BIOL 3205 Invertebrate Zoology Lab (1)**
Lab portion of BIOL 3200, provides hands-on opportunities to dissect and study representatives of the various invertebrate animal phyla, including field trips. Lab fee required. Prerequisite: BIOL 1625. Corequisite: BIOL 3200. FA (Even years)

**BIOL 3230 Cadaver Practicum (2)**
For students who desire more experience in human dissection. Students will be instructed in the maintenance, dissection, and demonstration of the human cadaver. Requires six hours of dissection per week. Limited enrollment course. Repeatable up to 8 credits subject to graduation restrictions. Course fee required. Prerequisites: BIOL 2320; AND BIOL 2325; AND Instructor permission. FA, SP

**BIOL 3250 Cancer Biology (2)**
For Biology majors, and other interested students. Examines “Cancer,” a catch-all term for hundreds of diseases that share the common feature of cells that forgo the normal regulatory systems of control and proliferate within the body.
Focuses on general principles of molecular nature and cell behavior common in the disease state. 

**BIOL 3340 Plant Anatomy** (3)

“Fulfills a program elective for all Biology majors. Study of the microscopic structure of the stems, leaves, roots, and reproductive structures of vascular plants with emphasis on the flowering plants. Successful completers will be able to categorize plants according to microscopic structure of tissues. 

**Prerequisites:** BIOL 1620; and BIOL 2400. **Corequisite:** BIOL 3345. **FA (Odd years)**

**BIOL 3344 Plant Anatomy Lab** (1)

Lab portion of BIOL 3340. Provides experience using compound microscopy to study the features of various plant tissues such as stems, roots, leaves, and reproductive structures. Lab fee required. 

**Prerequisites:** BIOL 1625; and BIOL 2405. **Corequisite:** BIOL 3340. **FA (Odd years)**

**BIOL 3360 Developmental Biology** (3)

Fulfills a program elective for students pursuing a Bachelor of Science in Biology degree. Covers major development patterns of animal embryos, stressing recent advances in the roles played by organizational genes and interactions among chemical gradients that cause tissue differentiation, and emphasizing constraints posed by developmental necessities on evolutionary change. Successful completers will be able to describe the evolution of different body plans, similarities and differences among major animal taxa, and the crucial importance of early stages of development in the proper functioning of mature organisms. Completion of BIOL 2030 Principles of Genetics is recommended before enrolling in this course. 

**Recommended prerequisite:** BIOL 2030. 

**Prerequisite:** BIOL 1610. **Corequisite:** BIOL 3365. **SU**

**BIOL 3450 General Microbiology** (3)

Can be used to fulfill a core requirement for Biology majors. Emphasizes relationships between microbes and their ecosystems, and biotechnological applications including food production, spoilage and preservation, fermentation technology, agriculture, waste disposal, water lecture/discussion. Successful completion of the course gives students an understanding of the importance of microbes to biological communities. 

**Prerequisite:** BIOL 1610; and CHEM 2310. **Corequisite:** BIOL 3455. **FA**

**BIOL 3455 General Microbiology Lab** (1)

Lab portion of BIOL 3450; provides basic and applied methodologies, including isolation of commercially useful strains and production and purification of industrial products. Lab fee required. 

**Prerequisite:** BIOL 1615. **Corequisite:** BIOL 3450. **FA**

**BIOL 3460 Biology of Infectious Disease** (3)

For Biology majors. Provides a modern view of bacterial and viral diseases in order to build a foundation for more advanced studies in microbiology, microbial pathogenesis, and immunology. The agents of infectious diseases demonstrate excellent examples of natural selection. The various adaptations of the pathogen and defenses of the host illustrate some of the most amazing mechanisms in biology. Covers characteristics of microbes, corresponding defense mechanisms evolved by hosts of these microbes, and mechanisms of pathogenesis during infection. Molecular, cellular, and physiological concepts will be developed through use of both clinical and epidemiological pictures of selected diseases. Successful completers will have an understanding of the importance of microbes to biological communities and how evolution has impacted and continues to influence aspects of disease transmission and control. 

**Prerequisites:** BIOL 1620 and BIOL 1625; and (BIOL 2030 or BIOL 3020 with BIOL 3025). **SU**

**BIOL 3470 Introduction to Immunology** (3)

For Biology majors who desire more coverage of the immune system and its response to microbes and viruses. General properties of immune responses, cells and tissues of the immune system, antibody-mediated and cell-mediated mechanisms of immunity, immunity to microbes, immunodeficiency and AIDS, autoimmune diseases, and transplantation will be discussed. Uses a variety of teaching methods including lecture/discussion, review of scientific journal articles, writing assignments, videos, quizzes, and exams. Successful completion of the course gives students a better understanding of the importance of the immune system to overall health and wellness of humans and other mammalian systems. 

**Recommended prerequisites:** BIOL 2030 or CHEM 3510. **Prerequisites:** (BIOL 3020, AND BIOL 3025); OR (BIOL 3450, AND BIOL 3455). Offered based upon sufficient student need.

**BIOL 4130 Biology Teaching Methods** (3)

Required of students pursuing a Biology Secondary Education degree. Designed to assist pre-service teachers plan, teach, and evaluate activities for biology classes. Students will examine objectives, instructional methods, and curriculum for biology in secondary schools. Students will gain experience in developing, adapting, evaluating and using strategies and materials for teaching biology. Special characteristics of the science discipline will be considered. Students will be exposed to a diversity of laboratory and outdoor environmental materials and methods. This course does not fulfill a Biology elective for the Bachelor of Science in Biology degree. 

**Prerequisite:** Admission to the Dixie State College Secondary Education Licensure program. **Offered based upon sufficient student need.**

**BIOL 4190 Mammalian Histology** (3)

Fulfills a program elective for Biology majors who desire a basic understanding of the structural organization of cells, tissues, and organ systems at the microscopic level, focusing on the characteristics of individual cell types within each tissue type as well as how the cells and tissues are organized to form organs, while emphasizing the dynamic relationships between structure and function. 

**Prerequisite:** BIOL 1610. **Corequisite:** BIOL 4195. **SP (Even years)**

**BIOL 4195 Mammalian Histology Lab** (1)

Lab portion of BIOL 4190. Lab fee required. 

**Prerequisite:** BIOL 1615. **Corequisite:** BIOL 4190. **SP (Even years)**

**BIOL 4200 Plant Taxonomy** (2)

Fulfills a program elective for Biology majors who desire experience in plant systematics. Focuses on the collecting of plants and systems of classification. Successful completers will identify plants in the field using diagnostic techniques including the use of dichotomous keys. 

**Prerequisites:** BIOL 1610; and BIOL 2400. **Corequisite:** BIOL 4205. **SP (Even years)**

**BIOL 4205 Plant Taxonomy Lab** (2)

Lab portion of BIOL 4200 designed so students gain hands on experience collecting and classifying plants through field trips, plant dissection, study of herbarium samples, microscopy, and the use of dichotomous keys. Field trips and plant collection required. Lab fee required. 

**Prerequisites:** BIOL 1615; and BIOL 2405. **Corequisite:** BIOL 4200. **SP (Even years)**

**BIOL 4230 General Parasitology** (3)

Fulfills a program elective for Biology majors. Emphasizes identification, life cycles, control and economic impact of organisms classified as protists, helminthes, and arthropods of veterinary and medical importance, especially the interaction between host and parasite. 

**Prerequisite:** Advanced Standing; and BIOL 1620. **Corequisite:** BIOL 4235. **SP (Odd years)**

**BIOL 4235 General Parasitology Lab** (1)

Lab portion of BIOL 4230, emphasizing morphology and identification of representative groups of parasites and diagnostic techniques of parasitic disease. Lab fee required. 

**Prerequisite:** BIOL 1625. **Corequisite:** BIOL 4230. **SP (Odd years)**

**BIOL 4260 Herpetology** (2)

Fulfills a program elective for Biology majors. Covers the biology of amphibians and reptiles including evolutionary history, functional morphology, physi-
biological ecology, biogeography, reproductive, and population ecology.

**Prerequisites**: BIOL 1620; and BIOL 2220.  
**Corequisite**: BIOL 4265.  
*FA (Odd years)*

**BIOL 4265 Herpetology Lab**  
(1) Lab portion of BIOL 4260, covering systematics, natural history, and collecting/sampling techniques. Field trips required.  
**Prerequisites**: BIOL 1625; and BIOL 2220.  
**Corequisite**: BIOL 4260.  
*FA (Odd years)*

**BIOL 4270 Ichthyology**  
(2) Fulfills a program elective for Biology majors. Covers the biology of fishes, including evolutionary history, functional morphology, physiological ecology, and biogeography, with an emphasis on Utah species. Successful completers will be able to identify various fishes, especially those found locally.  
**Prerequisites**: BIOL 1620; and BIOL 2220.  
**Corequisite**: BIOL 4275.  
Offered upon sufficient student need.

**BIOL 4275 Ichthyology Lab**  
(1) Lab portion of BIOL 4270, covering identification, systematic and natural history. Field trips required. Lab fee required.  
**Prerequisites**: BIOL 1625; and BIOL 2220.  
**Corequisite**: BIOL 4270.  
Offered upon sufficient student need.

**BIOL 4280 Marine Biology**  
(3) For students in the physical and biological sciences, covers global oceans with an introduction to oceanography and ocean processes; major marine ecosystems, with an emphasis on the Pacific Coast of California; marine ecology, emphasizing energy flow, populations and community structure and formation; and human impacts on the seas by considering positive and negative human activities that alter or enhance marine resources and environments. Field trip required. Course fee required.  
**Prerequisites**: BIOL 1620; and BIOL 2220; and BIOL 2225,  
*SP (Odd years)*

**BIOL 4300 Molecular Biology**  
(2) Fulfills program elective for students pursuing a Bachelor of Science in Biology degree who desire advanced study in molecular genetics, including DNA replication, structure, rearrangement, transposition, recombination, repair mechanisms, genetic engineering, and mechanisms of gene expression and gene modification. Explores current advancements in molecular biology and genetics, investigating their applications by reviewing selected works from the current scientific literature. Prepares students for further study and/or entry-level positions in biotechnology research laboratories.  
**Prerequisites**: BIOL 2030; and CHEM 3510.  
*FA*

**BIOL 4305 Molecular Biology Techniques**  
(2) Introduces basic laboratory techniques common to all modern molecular biology laboratories. Students will gain “hands-on” laboratory research experience through an extensive research project involving standard cloning experiment as its foundation and following the “Central Dogma” in vitro from an isolated genomic source to the purified and analyzed protein product. From this core path, the course will explore current advancements of these technologies and investigate their applications by reviewing selected works from the current scientific literature. Completion of BIOL 2060/2065 and CHEM 2320/25 are strongly recommended before enrolling in this course. Lab fee required.  
**Recommended prerequisites**: BIOL 2060 and BIOL 2065; and CHEM 2320, and CHEM 2325.  
**Prerequisites**: BIOL 1610; and BIOL 1615; and BIOL 2030; and CHEM 1220; and CHEM 1225.  
*FA*

**BIOL 4350 Animal Behavior**  
(3) Fulfills a program elective for all Biology majors. Covers the definition of behavior and how it is measured, the evolution and genetics of behaviors, and the wide spectrum of behaviors demonstrated by animals that help them survive and reproduce. Successful completers will be able to explain the many aspects of animal behavior, why those behaviors exist, and some specific examples of current research in each area of behavior. BIOL 3150 Introduction to Biometry is strongly recommended as a corequisite to this course.  
**Recommended prerequisites**: BIOL 3150.  
**Prerequisites**: BIOL 1620; and Advanced standing.  
**Corequisite**: BIOL 4355.  
*SP (Odd years)*

**BIOL 4355 Animal Behavior Lab**  
(1) Lab portion of BIOL 4350. Students will learn how behavior can be measured based on a clear definition of what behavior involves and will be shown the various techniques used by researchers to study behavior, in both field and laboratory settings, and the proper design of such studies. Students will design and carry out their own research projects on a particular behavior and write up the results of their study in journal article format. Successful completers will be capable of starting a simple research study of animal behavior in the field or in a laboratory setting, and can explain strengths and weaknesses of each. Lab fee required.  
**Prerequisites**: BIOL 1625, and Advanced standing.  
**Corequisite**: BIOL 4350.  
*SP (Odd years)*

**BIOL 4380 Ornithology**  
(2) Fulfills a program elective for all Biology majors, covers the biology of birds including their origin, evolution, structure, habits, adaptations, distribution, and classification. Successful completers will identify various birds, especially those found locally, and to discuss evolutionary and ecological relationships among them.  
**Prerequisites**: BIOL 1620, and BIOL 2220.  
**Corequisite**: BIOL 4385.  
*SP (Odd years)*

**BIOL 4385 Ornithology Lab**  
(1) Lab portion of BIOL 4380. Field trips required. Lab fee required.  
**Prerequisites**: BIOL 1625, and BIOL 2225.  
**Corequisite**: BIOL 4380.  
*SP (Odd years)*

**BIOL 4400 Pathophysiology**  
(3) Fulfills program elective for students pursuing a Bachelor of Science in Biology degree. An introduction to pathophysiological etiology and mechanisms that cause disease and altered organ and organ systems functioning throughout the lifespan.  
**Prerequisites**: BIOL 2320; AND BIOL 2325; AND BIOL 2420; AND BIOL 2425.  
*FA, SP*

**BIOL 4411 Mammalogy**  
(3) Fulfills a program elective for all Biology majors. Covers the unique adaptations and life histories of mammals, and surveys each order of mammal, describing evolution (where known), natural histories, and geographical ranges of representatives of that order. Successful completers will be able to describe what makes a mammal, its evolution, the adaptations that enabled mammals to dominate the earth for the last 65 million years, and current problems facing many mammals as well as possible solutions to those problems. Completion of BIOL 3140/3145 Comparative Vertebrate Anatomy/Lab is recommended before enrolling in this course.  
**Recommended prerequisites**: BIOL 3410 and BIOL 3145.  
**Prerequisites**: BIOL 1620; AND BIOL 2220.  
**Corequisite**: BIOL 4415.  
*FA (Even years)*

**BIOL 4415 Mammalogy Lab**  
(1) Lab portion of BIOL 4411, includes training to skin and stuff representative mammals collected by instructors, review of skins and skeletons for identification, and in articulation of mammalian skeletons for display, as well as observation of mammals and their signs in the wild. Successful completers will obtain a strong background of general knowledge about mammals, and specific knowledge of representatives of each taxon, especially local species and those of economic importance. Lab fee required.  
**Prerequisites**: BIOL 1625, and BIOL 2225.  
**Corequisite**: BIOL 4411.  
*FA (Even years)*
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 4440</td>
<td>General Entomology</td>
<td>(3)</td>
<td>Fulfills a program elective for all Biology majors. Includes study of the structure, development, classification, and life histories of insects, as well as ecological, economic, and management considerations. Successful completers will be able to identify common insects and discuss the economic and ecological impacts of insects. Completion of BIOL 2220 is recommended before enrolling in this course. Recommended prerequisite: BIOL 2225. Prerequisites: BIOL 1620. Corequisite: BIOL 4445. Offered upon sufficient student need.</td>
</tr>
<tr>
<td>BIOL 4445</td>
<td>General Entomology Lab</td>
<td>(1)</td>
<td>Lab portion of BIOL 4440. Completion of BIOL 2225 is recommended before enrolling in this course. Lab fee required. Recommended prerequisite: BIOL 2225. Prerequisite: BIOL 1625. Corequisite: BIOL 4445. Offered upon sufficient student need.</td>
</tr>
<tr>
<td>BIOL 4460</td>
<td>Plant Ecology</td>
<td>(2)</td>
<td>Fulfills a program elective for all Biology majors. Emphasizes limiting factors on plant growth and distribution; adaptations and responses at the individual, population, and community levels; species distributions along environmental gradients; and community structure and analysis. Successful completers will be able to identify possible factors limiting plant growth and distributions in certain areas. Prerequisites: BIOL 2220; and BIOL 3150. Corequisite: BIOL 4465. FA (Odd years)</td>
</tr>
<tr>
<td>BIOL 4465</td>
<td>Plant Ecology Lab</td>
<td>(1)</td>
<td>Laboratory portion of BIOL 4460. Includes data collection on required field trips, learning to analyze data sets, and review current scientific journal articles related to plant ecology. Lab fee required. Prerequisites: BIOL 2225; and BIOL 3155. Corequisite: BIOL 4460. FA (Odd years)</td>
</tr>
<tr>
<td>BIOL 4500</td>
<td>Comp Vertebrate Physiology</td>
<td>(3)</td>
<td>Fulfills a physiology elective for students pursuing a Bachelor of Science in Biology degree. Covers physiological adaptations of vertebrates, including general functions of each organ system and enlightening examples of specific adaptations in those systems in certain taxa. Successful completers will demonstrate a thorough, broad understanding of how vertebrate organisms accomplish the necessary tasks of regulating the internal environment in a variety of ways. Prerequisites: BIOL 1620; and CHEM 1220. Corequisite: BIOL 4505. FA</td>
</tr>
<tr>
<td>BIOL 4505</td>
<td>Comp Vertebrate Physiology Lab</td>
<td>(1)</td>
<td>Lab portion of BIOL 4500. Lab fee required. Prerequisites: BIOL 1625; and CHEM 1225. Corequisite: BIOL 4500. FA</td>
</tr>
<tr>
<td>BIOL 4600</td>
<td>Plant Physiology</td>
<td>(3)</td>
<td>Fulfills a physiology elective for students pursuing a Bachelor of Science in Biology degree who desire more coverage of botany topics. Emphasizes physiological, chemical, and ecological basis of plant life relative to absorption, transpiration, manufacture of foods, growth, and reproduction. Successful completers will have an understanding of the interaction between the structure and function of plants. Prerequisite: BIOL 1620; and CHEM 1220. Corequisite: BIOL 4605. SP</td>
</tr>
<tr>
<td>BIOL 4605</td>
<td>Plant Physiology Lab</td>
<td>(1)</td>
<td>Lab portion of BIOL 4600, providing hands-on activities involving observation and measurement of various plant functions and requiring students to collect and summarize data in reports. Lab fee required. Prerequisite: BIOL 1625; and CHEM 1225. Corequisite: BIOL 4600. SP</td>
</tr>
<tr>
<td>BIOL 4810</td>
<td>Independent Research I</td>
<td>(1 - 4)</td>
<td>Individual areas of study will be assigned to students based on preparation and interest. Students will be expected to write a paper (using supporting scientific sources) related to the problem studied. No more than 4 credits in any combination of internship, independent research, independent study, and senior thesis can count toward Biology degree requirements. Variable credit: 1 - 4. Repeatable up to 4 credits subject to graduation and program restrictions. Prerequisites: BIOL 3110 (can be concurrently enrolled); AND Advanced standing; AND ENGL 2010; AND Instructor permission. FA</td>
</tr>
<tr>
<td>BIOL 4820</td>
<td>Independent Research II</td>
<td>(1 - 4)</td>
<td>Individual areas of study will be assigned to students based on preparation and interest. Students will be expected to write a paper (using supporting scientific sources) related to the problem studied. No more than 4 credits in any combination of internship, independent research, independent study, and senior thesis can count toward Biology degree requirements. Variable credit: 1 - 4. Repeatable up to 4 credits subject to graduation and program restrictions. Prerequisites: BIOL 3110 (can be concurrently enrolled); AND Advanced standing; AND ENGL 2010; AND Instructor permission. SP</td>
</tr>
<tr>
<td>BIOL 4830</td>
<td>Independent Research III</td>
<td>(1 - 4)</td>
<td>Individual areas of study will be assigned to students based on preparation and interest. Students will be expected to write a paper (using supporting scientific sources) related to the problem studied. No more than 4 credits in any combination of internship, independent research, independent study, and senior thesis can count toward Biology degree requirements. Variable credit: 1.0 – 4.0. Repeatable up to 4 credits subject to graduation and program restrictions. Prerequisites: BIOL 3110 (can be concurrently enrolled); AND Advanced standing; AND ENGL 2010; AND Instructor permission. SP</td>
</tr>
<tr>
<td>BIOL 4890</td>
<td>Life Science Internship I</td>
<td>(1 - 8)</td>
<td>For students who are granted and accept an internship with an approved employer, or a governmental, non-profit, or private agency, that provides an extensive learning experience in the field of biology. Students must be supervised by an agency representative and a faculty advisor. Written contracts of expectations and terms and permission of the Biology Department Chair are required. No more than 4 credits in any combination of internship, independent research, independent study, and senior thesis can count toward Biology degree requirements. Variable credit: 1.0 – 8.0. Repeatable up to 8 credits subject to graduation and program restrictions. Prerequisites: Advanced standing; and Instructor permission. Offered based upon sufficient student need.</td>
</tr>
<tr>
<td>BIOL 4891</td>
<td>Life Science Internship II</td>
<td>(1 - 8)</td>
<td>For students who are granted and accept an internship with an approved employer, or a governmental, non-profit, or private agency, that provides an extensive learning experience in the field of biology. Students must be supervised by an agency representative and a faculty advisor. Written contracts of expectations and terms and permission of the Biology Department Chair are required. No more than 4 credits in any combination of internship, independent research, independent study, and senior thesis can count toward Biology degree requirements. Variable credit: 1.0 – 8.0. Repeatable up to 8 credits subject to graduation and program restrictions. Prerequisites: Advanced standing; and Instructor permission. Offered based upon sufficient student need.</td>
</tr>
<tr>
<td>BIOL 4910</td>
<td>Senior Seminar I</td>
<td>(1)</td>
<td>One Senior Seminar course is required of students pursuing a Bachelor of Science in Biology degree. Topics and themes will vary. Each student will be expected to lead the class in a current research and literature in the general fields of biological science for one week and submit a synthesis paper on a selected topic. Limited enrollment course. Prerequisites: ENGL 2010; and Advanced standing. FA</td>
</tr>
<tr>
<td>BIOL 4920</td>
<td>Senior Seminar II</td>
<td>(1)</td>
<td>One Senior Seminar course is required of students pursuing a Bachelor of Science in Biology degree. Topics and themes will vary. Each student will be expected to lead the class in a current research and literature in the general fields of biological science for one week and submit a synthesis paper on a selected topic. Limited enrollment course. Prerequisites: ENGL 2010; and Advanced standing. SP</td>
</tr>
<tr>
<td>BIOL 4930</td>
<td>Senior Thesis</td>
<td>(1 - 4)</td>
<td>One Senior Seminar course is required of students pursuing a Bachelor of Science in Biology degree. Topics and themes will vary. Each student will be expected to lead the class in a current research and literature in the general fields of biological science for one week and submit a synthesis paper on a selected topic. Limited enrollment course. Prerequisites: ENGL 2010; and Advanced standing. SP</td>
</tr>
</tbody>
</table>
BUSINESS (BUS)

BUS 1001 First Year Business Experience (1)
First Year Experience course designed to help freshman students interested in Business adapt to college life and become integrated into Dixie State College and the Udvar-Hazy School of Business. Students will refine academic skills, create and foster social networks, learn about college resources, explore the different options available within the Business department, and learn about career opportunities in Business. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1026). Students may only take one FYE course for credit. FA, SP, SU

BUS 1010 Introduction to Business (3)
Basic, introductory course designed to give students with little or no understanding of business a broad overview and understanding of the business world. Covers fundamental concepts of business such as definitions, business environment, business operations, role of business in the economy, the role of profit in a business, and how a business is established, financed, operated, and managed. FA, SP, SU

BUS 1020 10-Key Calculator Skills (1)
For any student interested in a foundation in the many uses of 10-Key Electronic Print/Display calculators. Includes proper techniques to develop speed and accuracy as well as fundamentals of business mathematics. FA, SP

BUS 1030 Business Math (3)
For students interested in mathematical applications for business problems, including checking accounts and bank reconciliations, percents, solving for “unknown”, discounts, markups and markdowns, payroll, simple interest, discounting notes, present and future value, depreciation, inventory, taxes, insurance, stocks and bonds, annuities, and sinking funds. FA

BUS 1060 Pre-Employment Seminar (1)
For any student interested in making a successful transition to the workplace, including effective job search techniques, job winning resumes and interviewing, and career advancement skills. FA, SP, SU

BUS 1350 Business Improvement Skills (1)
For members of Phi Beta Lambda, an organization for college students preparing for careers in business and business-related fields. Students upgrade skills through participation in business simulations, case problems, and a wide variety of office, computer, accounting, and management skill areas while preparing for competitive events. Repeatable up to 4 credits subject to graduation restrictions. Corequisite: BUS 1360. FA, SP

BUS 1360 PBL: Phi Beta Lambda (1)
For members of Phi Beta Lambda, an organization for college students preparing for careers in business and business-related fields, and the post-secondary affiliate of the Future Business leaders of America. Course is designed to provide leadership development and competition opportunities not traditionally available in college courses. Repeatable up to 4 credits subject to graduation restrictions. Course fee required. FA, SP, SU

BUS 1370 Human Relations (3)
For all students interested in combining human relations in the workplace with personal growth and career success. Focuses on developing interpersonal skills through self-evaluation, methods of conflict resolution, behavioral concepts, and effective communication principles. FA, SP, SU

BUS 1800 Business Work Experience (1-3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. FA

BUS - 1820 Business Work Experience (1-3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

CHEMISTRY (CHEM)

CHEM 1010 Intro to Chemistry (3)
Fulfills General Education Physical Science requirement for students majoring in Business, Communication, Fine Arts, Humanities, and other non-Science disciplines. Emphasizes basic chemical concepts within daily life. CHEM 1015 lab course recommended but not required. Recommended corequisite: CHEM 10165. FA, SP, SU

CHEM 1015 Intro to Chemistry Lab (1)
Lab portion of CHEM 1010. Lab fee required. Corequisite: CHEM 1010. FA, SP, SU

CHEM 1110 Elem General/Organic Chemistry (4)
Fulfills General Education Physical Science requirement for students majoring in Health Sciences, Family & Consumer Science, Natural Resources, or Agriculture. Not appropriate for students majoring in Life Sciences, Physical Sciences, pre-Medical, pre-Dental or other pre-professional program. 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. Prerequisite: MATH 1010 or Math Placement score 23 or higher. Corequisite: CHEM 1115.

CHEM 1010 or Math Placement score 23 or higher.
CHEM 1115  Elem General/Organic Chem Lab (1)
Lab portion of CHEM 1110. Successful completion satisfies pre-requisite for CHEM 1125. Lab fee required. Corequisite: CHEM 1110. FA, SP, SU

CHEM 1120  Elem Organic / Bio Chemistry (4)
Continuation of CHEM 1110. Second semester in a 2-course sequence covering fundamental laws of chemical kinetics, equilibrium, descriptive chemistry, nuclear chemistry, and special topics. Successful completion prepares students for further study in Chemistry and Life Sciences. Prerequisite: CHEM 1110. Corequisite: CHEM 1125. SP

CHEM 1125  Elem Organic / Bio Chem Lab (1)
Lab portion of CHEM 1120. Lab fee required. Prerequisite: CHEM 1115. Corequisite: CHEM 1120. SP

CHEM 1210  Principles of Chemistry I (4)
Fulfills General Education Physical Science requirement 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. Successful completion satisfies pre-requisite for CHEM 1220. Completion of a prior Chemistry course is strongly recommended before enrolling in this course. Prerequisite: MATH 1050 (C grade or higher), or equivalent placement score taken within 2 years prior to enrollment in this course. Corequisite: CHEM 1215. FA, SP

CHEM 1215  Principles of Chemistry Lab (1)
Lab portion of CHEM 1210. Successful completion satisfies pre-requisite for CHEM 1225. Lab fee required. Corequisite: CHEM 1210. FA, SP

CHEM 1220  Principles of Chemistry II (4)
Continuation of CHEM 1210. Emphasizes kinetics, equilibrium, descriptive chemistry, nuclear chemistry, and special topics. Successful completion prepares students for and satisfies prerequisite for CHEM 2310 and further study in life and physical sciences. Prerequisite: CHEM 1210. Corequisite: CHEM 1225. FA, SP

CHEM 1225  Principles of Chemistry II Lab (1)
Lab portion of CHEM 1220. Successful completion satisfies prerequisite for CHEM 2315. Lab fee required. Prerequisite: CHEM 1215. Corequisite: CHEM 1220. FA, SP

CHEM 1800  Chemistry Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. FA

CHEM 2310  Organic Chemistry I (4)
For Chemistry, Biology, pre-Medical, pre-Dental, pre-Optometry, pre-Pharmacy majors, pre-Chiropractic, pre-Medical Technician, and pre-Veterinary majors. Introduction to functional groups and related reactions, including an introduction to spectroscopy. Successful completion satisfies prerequisite for CHEM 2320. Prerequisite: CHEM 1220 (Grade C- or higher). Corequisite: CHEM 2315. FA, SP

CHEM 2315  Organic Chemistry I Lab (1)
Lab portion of CHEM 2310. Lab fee required. Corequisite: CHEM 2315 (Grade C- or higher). Corequisite: CHEM 2310. FA, SP

CHEM 2320  Organic Chemistry II (4)
Continues CHEM 2310. Further study of functional groups and related reactions, including organic reactions necessary for synthesis of larger molecules. Successful completion prepares students for further study in biochemistry and physical chemistry. Prerequisite: CHEM 2310 (Grade C- or higher). Corequisite: CHEM 2325. FA, SP

CHEM 2325  Organic Chemistry II Lab (1)
Lab portion of CHEM 2320. Lab fee required. Prerequisite: CHEM 2315 (Grade C- or higher). Corequisite: CHEM 2320. FA, SP

CHEM 2990  Seminar in Chemistry (0.5 - 3)
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, either students request some type of non-traditional instruction, or an unanticipated opportunity for instruction presents itself. This seminar course provides a variable-credit context for these purposes. As requirements, this seminar course must first be pre-approved by the department chair; second, it must provide at least nine contact hours of lab or lecture for each credit hour offered; and third, it must include some academic project or paper (i.e., credit is not given for attendance alone). This course may include standard lectures, travel and field trips, guest speakers, laboratory exercises, or other non-traditional instruction methods. Note that this course is an elective and does not fulfill general education or program requirements. Prerequisite: Instructor permission.

CHEM 3510  Biochemistry I (3)
Covers cellular metabolism of biologically-important molecules (carbohydrate, lipid, protein, and nucleic acids) as well as regulation of these metabolic processes. Principles will be taught using structure/function relationships. Prerequisites: BIOL 1610/1615, AND CHEM 2320/2325. FA

CHINESE (CHIN)

CHIN 1010  Beginning Mandarin Chinese I (4)
For beginning students interested in the Chinese language. Native-speakers and students who have acquired proficiency in this language through extended residence, military service, church missions, or other methods may not enroll in this class. Emphasis on gaining communicative competence by focusing on the development of speaking and listening comprehension skills. Discussion of Chinese culture is also a component of the course. Several teaching methods are used, including lecture, drill practice, conversation exchanges and group work. This course partially qualifies students to receive an Associate of Arts degree. Successful completers are prepared to take Chinese 1020. Placement in foreign language classes is at the discretion of the Department Chair. FA

CHIN 1020  Beginning Mandarin Chinese II (4)
For students who have completed CHIN 1010 or who have equivalent experience (approximately two years of high school Chinese). Native-speakers and students who have acquired proficiency in this language through extended residence, military service, church missions, or other methods may not enroll...
in this class. Continued emphasis on gaining communicative competence by focusing on the development of speaking and listening comprehension skills. Several teaching methods are employed, including lecture, drill practice, conversation exchanges, videos, lab tapes, and group work. Students using 1020 as an entry level class may receive vertical credits for CHIN 1010 upon passing 1020 with a C grade or higher. This course partially qualifies students to receive an Associate of Arts or Bachelor of Arts degree. Successful completers are prepared to take CHIN 2010. Placement in foreign language classes is at the discretion of the Department Chair. Prerequisite: CHIN 1010 or instructor permission. SP

**CLINICAL LABORATORY SCIENCE (CLS)**

**CLS  1113  Intro to Clinical Lab Practice (1)**
Lab portion of Weber State University CLS 1113. Addresses principles and applications of laboratory testing, including safe practices for the laboratory practitioner, specimen quality assurance, phlebotomy, urinalysis, basic concepts in clinical immunology, and clinical approaches to immunological testing. Course fee required. Prerequisite: Instructor permission only. Corequisite: Weber State University CLS 1113.

**CLS  1123  Hematology & Hemostasis Lab (1)**
Lab portion of Weber State University CLS 1123. Covers fundamental theories of hematopoiesis, routine laboratory evaluation of blood components using standard instrumentation and microscopic methods, including safety and quality control. Introduces routine laboratory methods in hemostasis. Course fee required. Prerequisite: Instructor permission only. Corequisite: Weber State University CLS 1123.

**COMMUNICATION (COMM)**

**COMM  1001  Freshman Comm Experience (1)**
A First Year Experience seminar designed to help students majoring in Communication adapt to college life and become integrated into Dixie State College and the Communication department. Under the supervision of departmental academic advisors, students will refine academic skills, create and foster social networks, learn about college resources, explore different options available within the Communication department, and learn about career opportunities in Communication. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1026). Students may only take one FYE course for credit. FA

**COMM  1010  Elements of Effective Comm (3)**
Introduction to the theory and practice of communicating in interpersonal, small group, organizational, and public presentation settings. Includes essential theories through practical experience, including language use, nonverbal communication, organizational structure and practices, persuasion, and public speaking. FA, SP, SU

**COMM  1020  Public Speaking (3)**
Required of Human Communication majors. For any student with an interest in improving public speaking skills by preparing, outlining, and presenting various types of speeches, including introductory, informational, persuasive, and others. Successful completers will be able to present an organized, well prepared speech. FA, SP, SU

**COMM  1050  Intro to Communication Theory (3)**
Fulfills General Education Social & Behavioral Sciences requirement. Required of all Communication majors. Survey of basic issues, theories, and perspectives in the study of communication, including knowledge of the various contexts of human communication and how they differ from each other. Successful completers develop critical thinking and analytical skills; improve listening and observational skills; increase problem solving capabilities; gain insight into their own paradigms and the paradigms of others; and learn how to communicate effectively with others of varying beliefs and values in a variety of contexts. FA, SP

**COMM  1060  Intro to Rhetorical Theory (3)**
For Communication majors and other students interested in the meaning of rhetoric and its place in Communication studies. Includes basics of rhetorical theory from traditional and contemporary perspectives in preparation for further communication courses. FA

**COMM  1130  Writing for Media Audiences (3)**
For all students with an interest in mass media, required of Mass Communication majors. Survey of mass media reporting with an emphasis on writing in Associated Press (AP) style. Requires writing media pieces for print, broadcast, and online formats; specialized stories; public relations; and advertising. Includes interviewing, applicable laws, and ethics. Prerequisite: ENGL 1010. FA, SP

**COMM  1270  Argument & Critical Thinking (3)**
Required of all Communication majors, and open to other interested students. Focuses on the relationship of language to logic. Successful completers will increase analytic and constructive criticism abilities, as well as effectively connect, propose, and support ideas using both inductive and deductive reasoning, differentiating between inferences and fact and creating unambiguous statements of knowledge or belief. Emphasizes intrapersonal and interpersonal internal and external dialogue. FA, SP, SU

**COMM  1380  Intro to Television Production (2)**
For Communication 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. Corequisite: COMM 1385. FA, SP

**COMM  1385  Intro to Television Prod Lab (1)**
Lab portion of COMM 1380. Corequisite: COMM 1380. FA, SP

**COMM  1400  Voice and Diction (3)**
For students seeking to improve articulation and increase control of the speaking voice, including media, performance, and other majors. Emphasizes skill development, and covers mechanics of speech production, including respiration, phonation, resonance and articulation using the International Phonetic Alphabet. FA

**COMM  1500  Intro to Mediated Comm (3)**
For Communication majors, and other interested students. Required of Mass Communication and Motion Picture Production majors. Introduction to structure, operation, diversity, and effects of mass media. Discusses the different forms of media, including newspapers, magazines, radio, television, computer networks, and motion pictures. Emphasizes developing and defending value judgments about media content and style and the societal relevance of mass media. FA, SP

**COMM  1560  Audio for Converged Media (3)**
For Communication majors, and other interested students. Develops beginning audio production skills for radio, television, motion picture, and online environments, including generating and editing audio for broadcast stations and new media. Combined lecture / lab. Lab fee required. FA, SP

**COMM  1610  News Writing & Reporting (3)**
Required of Mass Communication majors, and open to all students with an interest in writing for the print media. A writing-intensive course, emphasizing aspects of print journalism and teaches students how to gather and report facts for different types of news stories. Prerequisite: COMM 1130. SP
COURSE DESCRIPTIONS

COMM 1800 Communications Work Experience (1 - 3)
For students in final year of study at Dixie College. Offers on-the-job learning in radio, television and journalism work situations. Students meet with the instructor-coordinator and the employer at the beginning of the course to determine objectives, hours to be worked, and to sign a credit agreement. Student gains added awareness of actual working requirements. Students are limited to four cooperative education credit courses or 12 cooperative education credits. 
FA

COMM 1810 Communications Work Experience (1 - 3)
For students in final year of study at Dixie College. Offers on-the-job learning in radio, television and journalism work situations. Students meet with the instructor-coordinator and the employer at the beginning of the course to determine objectives, hours to be worked, and to sign a credit agreement. Student gains added awareness of actual working requirements. Students are limited to four cooperative education credit courses or 12 cooperative education credits. 
SP

COMM 1820 Communications Work Experience (1 - 3)
For students in final year of study at Dixie College. Offers on-the-job learning in radio, television and journalism work situations. Students meet with the instructor-coordinator and the employer at the beginning of the course to determine objectives, hours to be worked, and to sign a credit agreement. Student gains added awareness of actual working requirements. Students are limited to four cooperative education credit courses or 12 cooperative education credits. 
SU

COMM 2010 Media & Society (3)
Fulfills General Education Social & Behavioral Sciences requirement. Examines relationships between mass communication and society from a variety of theoretical perspectives and social concerns, including roles and performance of contemporary media content; critical evaluation of the uses and effects of media; how contemporary news, entertainment, and advertising content shared a culture’s understanding of women, minorities, children, and other groups; and basic media ethics and laws. 
FA, SP

COMM 2020 Forensics Institute (3)
For students enrolled in the Sun Country Forensics Institute summer workshop seeking to enhance their Policy, Lincoln-Douglas, and/ or individual event debate knowledge and skills. Repeatable up to 6 credits subject to graduation restrictions. 
SU

COMM 2110 Interpersonal Communication (3)
Fulfills General Education Social & Behavioral Sciences requirement. 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. 
FA, SP, SU

COMM 2120 Small Group Communication (3)
For Communication majors, but open to all students interested in small group communication in familial, work, social, religious, civic, or educational environments. Covers the formal and unspoken rules of conduct, roles, and expectations of performance unique to each group, as well as how to function productively in small group settings. Reviews criteria for effective group decision making. 
FA, SP

COMM 2210 Newspaper Production I (3)
Open to all students as well as Communication majors interested in a Practicum Experience on the Dixie Sun, DSC’s campus newspaper. Required for students who want to work on the student newspaper as writers, reporters, photographers, editors, directors, or student managers. Provides hands-on experience in most facets of producing a weekly newspaper including writing, layout, photography, advertising, journalism and newspaper principles, and holding staff meetings. Some evening work reporting or in production may be required. Students work a minimum number of hours based on the credits for which they register: 6 hours per week for 1 credit, 12 hours per week for 2 credits, or 18 hours per week for 3 credits. Variable credit 1.0 – 3.0. Repeatable up to 12 credits subject to graduation restrictions. Course fee required. Prerequisites: COMM 1130, and Instructor permission. 
FA, SP

COMM 2370 Sports Broadcasting (3)
Open to all students as well as Communication majors interested in a Practicum Experience broadcasting college and high school sports events. Provides hands-on experience in several positions on the broadcast team at a minimum of 10 shoots per semester, including some weekends and evenings. Repeatable up to 9 credits subject to graduation restrictions. 
FA, SP

COMM 2380 Audio Production Practicum I (1 - 3)
Open to all students as well as Communication majors interested in a Practicum Experience on DSC’s campus radio station and a variety of other audio formats. Includes FCC regulations. Basic programming skills, news and sports production, music programming, etc. Students work a minimum number of hours based on the credits for which they register: 6 hours per week for 1 credit, 12 hours per week for 2 credits, or 18 hours per week for 3 credits. Variable credit: 1.0 – 3.0. Repeatable up to 12 credits subject to graduation restrictions. Course fee required. Prerequisite: COMM 1560 (can be concurrently enrolled). 
FA, SP

COMM 2410 Directing for the Camera (3)
For Communication majors. Introduces techniques in working relationships between actors and motion picture production personnel. Taught in conjunction with THEA 2033 Acting II to facilitate Theatre students learning techniques and method of acting for the camera and Communication students learning motion picture production in order to integrate talents in student motion picture projects involving student actors. Covers directing, blocking for the camera, interpreting dialogue, learning production vermicular and protocols for actors on a motion picture set, and interpersonal skills between talent and technicians. 
FA

COMM 2460 Intro to New Media Production (3)
For Communication majors and other interested students. Covers theory relevant to structuring content for converged access. Develops desktop video production skills by producing news releases and support material, focusing on acquiring, digitizing, editing, and distributing digital video information. Combined lecture / lab. 
FA

COMM 2500 Being Digital: Trends & Issues (3)
Required of all Communication majors, and open to all student interested in an introduction to digitally integrated media. Covers the history, trends, devices, services, practices, and societal issues associated with the use of modern telecommunication technologies in interpersonal, group, organization, and mass communication settings, including a general and very basic knowledge of the technology of modern digital communication; a general understanding of the trends in these new forms of communication, as manifested in each of the domains of the marketplace: consumers, content, channels of distribution, and stakeholders; and a basic understanding of the societal issues that arise as a consequence of digitally integrated communication technology such as access, privacy, copyright, regulation, etc. 
FA, SP

COMM 2600 Screenwriting (3)
For Communication majors, and other interested students. Develops screenwriting approaches to feature, short, and documentary productions, including identification of structural elements inherent in feature and documentary work, distinguishing how character functions within plot, articulating plot points and transitions, and exploring effective avenues of research for development. Prerequisite: ENGL 1010. 
FA

COMM 2630 Storyboarding (3)
For Communication majors interested in developing storyboard approaches to feature, short and documentary pre-production development. Identification of structural elements inherent in storyboarding, distinguishing camera and character movement, using 3-D software for virtual storyboarding pre-visualization, developing illustration skills through hands-on application, and exploring alternative methods of digital motion picture pre-visualization via motion picture artifacts are included. **Prerequisite:** COMM 2660. \(SP\)

**COMM 2660 Intro-Dig Motion Picture Prod** (3)

Required of Motion Picture Production majors, and open to Communication majors interested in applications of digital motion picture production, including commercial, corporate, Internet, and documentary feature production. Covers commercial, corporate, Internet, documentary and feature production; critical analysis of effects, and technical and ethical aspects of composing. \(FA\)

**COMM 3010 Nonverbal Communication** (3)

For Communication majors and other students interested in the role behavior plays in the development and delivery of effective communicative acts and its consequences in an effort to increase students’ behavior-related skills and applications in social contexts. **Prerequisite:** COMM 2110. \(FA\)

**COMM 3060 Communication Theory** (3)

Required of Human Communication and Mass Communication majors. Develops awareness, understanding, and application of the complex theories and concepts inherent in the study of Human Communication. Focuses on theoretical, conceptual, and applied research and scholarship that investigates ways in which people communicate, the consequences of those interactions, and the effects new media technologies have on Human Communication processes. Successful completers will develop an understanding of how various components of the communication process interact, will analyze those interactions to identify ways to become a more effective communicator, and apply theories and concepts to everyday life. **Prerequisite:** COMM 1050. \(FA, SP\)

**COMM 3110 Interpersonal-Small Group Dyn** (3)

For Communication majors, and other interested students. Designed to address the connection between interpersonal communication and the needs of small groups by exploring how interpersonal communication dynamics affect and are changed by small group contexts, recognizing that the small group environment is unique in its complexity and is entirely dependent upon skilled application of interpersonal theories, concepts, and behaviors, both verbal and nonverbal. **Prerequisite:** COMM 2110. **Offered in Communication Degree Completion Program.**

**COMM 3120 Family Communication** (3)

For Communication majors, and other interested students. Study of the complexities and influences of the family structure as representative of culture, including communication structure, interaction patterns, parenthood, abuse, conflict, family goals of finance and education, and dealing with rapid changes in restructuring due to people both entering and leaving the family unit, from the first meeting of partners to the final stages of life. **Prerequisites:** COMM 2110, and COMM 2120. \(FA\)

**COMM 3150 Lying & Deception** (3)

For Communication majors, and other interested students. Addresses what research identifies as an increase in deception in all aspects of human affairs. Students will identity the differences between whole truths, half-truths, expedient momentary acts of deception, and how these acts inform culture, while exploring the consequences of deception in human affairs and the ethical violations that accompany these acts. **Prerequisite:** COMM 2110. \(FA\)

**COMM 3170 Advanced Critical Thinking** (3)

For Communication majors, and other interested students. Undertakes rhetorical and content analysis to extract meaningful information from written and spoken messages. Skills are refined through development of substantive and effective written and spoken messages. **Prerequisite:** Advanced standing. **Offered in Communication Degree Completion Program.**

**COMM 3190 Intercultural Communication** (3)

Required of Human Communication majors, and open to other interested students. Designed to develop cross-cultural, global understanding, and sensitivity. Focuses on theoretical and conceptual immersion in extant cross-cultural research and scholarship. Includes in various forms and formats of media, culturally sensitive audience analysis, increased diversity sensitivity and understanding, as well as design and delivery of messages that are culturally sensitive via new media technologies. **Prerequisite:** COMM 2110. \(FA, SP\)

**COMM 3210 Newspaper Production II** (1 - 3)

Open to all students as well as Communication majors interested in a Practicum Experience on the Dixie Sun, DSC’s campus newspaper. Required for students who want to work on the student newspaper as writers, reporters, photographers, editors, directors, or student managers. Provides hands-on experience in most facets of producing a weekly newspaper including writing, layout, photography, advertising, journalism and newspaper principles, and holding staff meetings. Some evening work reporting or in production may be required. Students work a minimum number of hours based on the credits for which they register: 6 hours per week for 1 credit, 12 hours per week for 2 credits, or 18 hours per week for 3 credits. Variable credit 1.0 – 3.0. Repeatable up to 12 credits subject to graduation restrictions. Course fee required. **Prerequisites:** COMM 2210, and Instructor permission. \(FA, SP, SU\)

**COMM 3330 Negotiations & Bargaining** (3)

For Communication majors, and other interested students. Explores the processes and outcomes of negotiation and bargaining principles, theories, and related concepts by engaging in experiential opportunities where they apply these principles and gain skills in negotiation and bargaining in current social and professional settings. Includes professional guest speakers. **Prerequisite:** COMM 1270. \(SP\)

**COMM 3350 Interviewing** (3)

For Communication majors, and other interested students. Focuses upon dyadic communication conducted specifically for gathering information and seeking entrance into closed workplace, clubs, social, educational, or recreational groups. \(SP\)

**COMM 3370 TV Production Practicum** (1 - 3)

For Communication majors and other students interested in a hands-on experience working with any of DSC’s television stations or TV production projects. Includes basic television production skills for news, sports, and other TV content. Students work a minimum number of hours based on the credits for which they register: 6 hours per week for 1 credit, 12 hours per week for 2 credits, or 18 hours per week for 3 credits. Repeatable up to 12 credits subject to graduation restrictions. **Prerequisite:** Instructor permission. \(FA, SP, SU\)

**COMM 3380 Audio Production Practicum II** (1 - 3)

Open to all students as well as Communication majors interested in a Practicum Experience on DSC’s campus radio station and a variety of other audio formats. Includes FCC regulations. Basic programming skills, news and sports production, music programming, etc. Students work a minimum number of hours based on the credits for which they register: 6 hours per week for 1 credit, 12 hours per week for 2 credits, or 18 hours per week for 3 credits. Variable credit: 1.0 – 3.0. Repeatable up to 12 credits subject to graduation restrictions. Course fee required. **Prerequisites:** COMM 1560; AND Instructor permission. \(FA, SP\)

**COMM 3400 Gender Communication** (3)

For Communication majors, and other interested students. Studies the verbal and nonverbal interactions between men and women to encourage the develop-
ment of communication skills between genders so that interpersonal and professional interactions are more successful and effective. Prerequisite: COMM 2110. FA

COMM 3460 Content & Rhetorical Analysis (3)
For Communication majors, and other interested students. Introduction to analysis of public communication (speeches, editorials, advertisements, TV, motion picture, etc.) from a variety of rhetorical perspectives. Prerequisite: COMM 1060. SP

COMM 3480 New Social Media (3)
For Communication majors and other interested students. Focuses on how and why social media functions, including monitoring personal social media use; gathering data; and analyzing innovations and platforms and their uses in networking, marketing, and disseminating information. FA

COMM 3510 Ethics in Communication (3)
Required of all Communication majors, and open to other interested students. Requires students to become well-informed about communication strategies and skills that will develop an ethical sensitivity applicable to all walks of life through an intensive examination and evaluation of how well or how poorly ethical standards are formed, articulated, applied, and defended. Prerequisite: COMM 1010, OR COMM 2110. FA. SP

COMM 3530 Digital Photojournalism (3)
For Mass Communication majors, and other interested students. Covers advanced techniques in digital acquisition and manipulation of still images for converged journalism. Covers exposure using digital tools, impacts of the frame in composing for the story, editing for publication, digital darkroom fundamentals, and photojournalism ethics in the digital domain. SP

COMM 3550 Theory Perspectives Org Comm (3)
For Communication majors, and other interested students. Examines organizational communication theories and concepts in detail, particularly with a view toward modern applications within a range of current professional settings in order to advance students’ abilities to apply appropriate theories and concepts in analyses of organizations, human behavior, organizational policies, and their consequences. Prerequisite: COMM 1050. Offered in Communication Degree Completion Program.

COMM 3560 Visual Communication (3)
Required of Mass Communication majors, and open to other interested students. An introduction to visual communication as manifested in photography, television, motion pictures, the Internet, and other visual media in order to obtain a basic understanding of the physical and cognitive processes of visual communication, the elements of visual messages, and principles of visual organization that can affect perception, such as Gestalt, framing, vectors, motion, color, and typestyles. FA

COMM 3580 Public Relations (3)
Required of Public Relations majors, and open to other interested students. Case studies demonstrate major categories of public relations: media relations, employee relations, investor relations, consumer relations, community relations, and government relations. Covers fundamental principles of communication relating to public affairs, persuasion, journalism and public relations. Focuses on using basic public relations tools: news releases, feature stories, photos and captions, print and broadcast advertising, direct mail, printed media, newsletters, video productions, conflict resolution, personal appearances, crisis and program planning, and methods of evaluation, as well as planning events and working under deadlines. Prerequisite: COMM 1130. FA

COMM 3590 Media Management & Sales (3)
For Communication majors, and other interested students. Covers managerial and sales principles affecting media facility operations: fiscal management, reg-

COMM 3600 Convergence Journalism (3)
Required of Print Journalism majors, and open to other students interested in news and information reporting in broadcast, corporate and Internet contexts. Focuses on developing information gathering skills such as interviewing and research, writing for mass audiences, and integrating digital visual elements into media while developing an understanding of media law, ethics, and cultural sensitivity, political structures and organization. Successful completers will develop competency in writing for mass audiences, including press releases, video news releases, broadcast news, and copy editing and critique. Prerequisite: COMM 1130. FA

COMM 3610 News & Copy Editing (3)
Required of Mass Communication majors, and open to other students with an interest in print/online media. Helps develop good writing and editing skills as they pertain to print/online news writing, including writing headlines and cutlines. Students may also gain copy editing experience by working with the “Dixie Sun” student newspaper. Prerequisite: COMM 1130. SP

COMM 3640 Digital Motion Pic Pre-Prod (2)
Required of Motion Picture Production majors. Focuses on developing theory-based skills in single-camera production protocols, pre-visualization, the camera, shooting, sound, lighting and exposure. Specific skills include cinematography, location audio acquisition, and location and set lighting. Prerequisite: COMM 3640. Corequisite: COMM 3665. FA

COMM 3650 TV Field Production/Reporting (2)
For Communication majors. Covers the visual aspects of broadcast news gathering in order to develop skills in broadcast video production and editing the primary electronic news gathering formats. Prerequisite: COMM 1380. Corequisite: COMM 3655. FA

COMM 3655 TV Field Prod/Reporting Lab (1)
Lab portion of COMM 3650. Prerequisite: COMM 1385. Corequisite: COMM 3650. FA

COMM 3660 Digital Motion Picture Prod (2)
Required of Motion Picture Production majors. Focuses on developing theory-based skills in single-camera production protocols, pre-visualization, the camera, shooting, sound, lighting and exposure. Specific skills include cinematography, location audio acquisition, and location and set lighting. Prerequisite: COMM 3640. Corequisite: COMM 3665. FA

COMM 3665 Digital Motion Pic Prod Lab (1)
Lab portion of COMM 3660. Corequisite: COMM 3660. FA

COMM 3680 Digital Motion Picture Post-Prod (2)
Required of Motion Picture Production majors. Focuses on developing theory-based skills in post-production, including editing protocols such as line producing, footage and logging reports, digitizing, editing methodology and approaches, Foley and post audio production, non-linear editing on Final Cut Pro, post management, shot logging, editing aesthetics, and developing transitions. Prerequisite: COMM 3660. Corequisite: COMM 3685. SP
COMM 3685  Digital MP Post-Prod Lab (1)
Lab portion of COMM 3680. Prerequisite: COMM 3665. Corequisite: COMM 3680. SP

COMM 3700  Television News Process (2)
For Communication majors. Develops skills in the process of television news from initial story conception to the role of the producer in creating a completed television newscast or news magazine program, including visual storytelling, electronic news gathering and writing and reporting within the context of television news production. Prerequisite: COMM 3650. Corequisite: COMM 3705. SP

COMM 3705  TV News Process Lab (1)
Lab portion of COMM 3700. Prerequisite: COMM 3655. Corequisite: COMM 3700. SP

COMM 3790  Adv Audio for Converged Media (3)
Required of Motion Picture Production majors. Develops theory-based skills in audio acquisition in motion picture production and news broadcasting environments, including field and studio sound acquisition in mixing multiple sources, using a variety of microphones in proper applications, and engineering samples for post-production. Prerequisite: COMM 1560. FA

COMM 3830  Editorial & Opinion Writing (3)
For Communication majors, and other students with an interest in print journalism. Focuses on critical, opinion, and persuasive writing in print mediums in the form of editorials, reviews, columns, letters and cartoons. Emphasizing good writing skills, students will read, analyze, research, and write op-ed newspaper content. Prerequisite: COMM 1130. FA

COMM 3850  Organizational Communication (3)
Required of Human Communication majors, and open to other interested students. Focuses on complex processes inherent in organizations, including theoretical, conceptual, and applied research and scholarship that reviews why organizations succeed and why they fail, especially how organizations come to be, analysis of organizations to identify strengths and weaknesses, identification of successful personal roles, and insights into organizational structure and cross-communicative patterns within organizations. FA, SP

COMM 4010  Persuasion (3)
Required of Human Communication majors, and open to other interested students. Develops awareness, understanding, and application of critical thinking and persuasive message design to achieve intended persuasive effects on specific audiences by focusing on rhetorical, conceptual, and applied research and scholarship that tracks both traditional as well as modern persuasive processes in both oral and written persuasive messages. Critical thinking skills are developed through analysis of audiences and positional arguments and their rhetorical construction. Prerequisite: COMM 1270. FA, SP

COMM 4020  Integrated Oral Presentations (3)
For Communication majors, and other interested students. Develops theory-based skills integrating public speaking with technology by expanding presentational skills and message impact through production and incorporation of electronic images. Successful completers will understand integrated delivery strategies and develop a technological foundation to support this sophisticated form of public speaking. Prerequisite: COMM 1020. FA

COMM 4030  Applied Org Comm Research (3)
For Communication majors. Examines modern research initiatives in organizational communication theories and concepts in detail, particularly with a view toward modern applications within a range of current professional settings. Students will design and implement original research emerging from case study. Successful completers will increase their abilities to apply appropriate theories and concepts in analyses of organizations, human behavior, organizational policies and their consequences. Prerequisite: COMM 4450. Offered in Degree Completion Program.

COMM 4050  Leader High Performance Teams (3)
For Communication majors, and other interested students. Emphasizes development of teamwork and the principles of high performance teams, including conceptualization and practice of the many types of leadership and their effective applications. Successful completers will increase skills and understanding of group processes and leadership dynamics within groups. Prerequisite: COMM 2120. SP

COMM 4100  Documentary Production (2)
For Communication majors. Integrates skills in writing, videography, visual storytelling, and editing by conceptualizing, planning, and executing a documentary to completion. Prerequisite: COMM 2660. Corequisite: COMM 4105. SP

COMM 4105  Documentary Production Lab (1)
Lab portion of COMM 4100. Prerequisite: COMM 2665. Corequisite: COMM 4100. SP

COMM 4260  Media Law (3)
Required of Mass Communication majors, and open to other interested students. Addresses legal and ethical considerations for communication practitioners in new media, by exploring the historical and philosophical underpinnings of media law and by reviewing the major cases which have produced current legal standards. Issues include the First Amendment, print and broadcast media regulation, advertising regulation, Internet law, libel, privacy, trespass, royalties, and copyrights. Prerequisite: ENGL 2010. FA, SP

COMM 4330  New Media Applications (3)
For Communication majors, and other interested students. Surveys new developments and applications in converged media, including seeking, using, and evaluating developing technologies focused on communicating, entertaining, and informing, as well as the impact on publishing and broadcasting. Prerequisite: COMM 2500. SP

COMM 4380  Adv Television Production (2)
For Communication majors. Integrates studio, live remote, field, and audio production skills by producing and directing a television program. Prerequisite: COMM 3650. Corequisite: COMM 4385. SP

COMM 4385  Adv Television Production Lab (1)
Lab portion of COMM 4380. Prerequisite: COMM 3655. Corequisite: COMM 4380. SP

COMM 4450  Communication Research (3)
One of four courses that will fulfill the research methods course requirement for Human Communication and Mass Communication majors. Focuses on Communication-specific quantitative, qualitative, and critical research methodologies through a process of Communication research design and analysis. Prerequisite: COMM 3060. FA, SP

COMM 4460  Quantitative Research Methods (3)
One of four courses that will fulfill the research methods course requirement for Human Communication and Mass Communication majors. Focuses on Communication-specific quantitative research methodologies through a process of Communication research design and analysis. Prerequisite: COMM 3060. FA, SP

COMM 4470  Qualitative Research Methods (3)
One of four courses that will fulfill the research methods course requirement for Human Communication and Mass Communication majors. Focuses on
COMM 4480 Critical Research Methods (3)

One of four courses that will fulfill the research methods course requirement for Human Communication and Mass Communication majors. Focuses on Communication-specific critical research methodologies through a process of Communication research design and analysis. Prerequisite: COMM 3060. FA, SP

COMM 4490 Communication Contemporary Issues (3)

For Communication majors. An analysis of public issues that currently dominate communication including the impact of technology, philosophy, and ideas requiring application of rhetorical principles for more effective communication. Prerequisite: COMM 4010. FA

COMM 4500 Human Communication & Conflict (3)

Required of Human Communication majors. Explores the theoretical and conceptual foundations of conflict, primarily at the interpersonal, dyadic level, as well as the sources, types, and outcomes of their application. Successful completers will demonstrate an increase in source of conflict awareness and skill development in resolution techniques, as well as being able to apply this awareness to what they are able to observe in their personal relationships with others. Prerequisite: COMM 1270. SP

COMM 4580 Public Relations Case Studies (3)

Required of Public Relations majors. Exploration of the principles and practices of public relations through the study of contemporary local and national PR case studies, providing a review of the historical evolution of public relations; the principles and theories of that profession; the role research plays as a cornerstone of contemporary PR practice; the terminology, strategies, and approaches used by professionals; public relations’ role in society; the relative effectiveness of various PR techniques and tactics; the ethical and legal dimensions of public relations practices; the issues and trends that shape and will continue to shape current and future public relations practices, including the impact of new technology; and public relations’ potential as a career. Prerequisite: COMM 1130. SP

COMM 4600 Feature Writing (3)

Required of Print Journalism majors, and open to other students with an interest in writing for print media. A writing-intensive course that requires students to develop news writing and reporting skills by covering beats and attempting to get published. FA

COMM 4680 Advanced Reporting (3)

Required of Print Journalism majors, and other students with an interest in writing for print media. A writing-intensive course that requires students to develop news writing and reporting skills by covering beats and attempting to get published. Prerequisite: COMM 1610. SP

COMM 4700 Adv Digital Motion Picture Prod (2)

Required of Motion Picture Production majors. Participants produce student projects in documentary, short motion picture, and commercial media and then post their projects for distribution to motion picture festivals and contests and complete their portfolios and production reels. Focuses on developing skills in directing, production protocol, location and unit production management, and script supervision with advanced skills in the production departments of camera, sound, and grip/electric. Prerequisite: COMM 3660. Corequisite: COMM 4705. FA

COMM 4705 Adv Digital Motion Picture Prod Lab (1)

Lab portion of COMM 4700. Prerequisite: COMM 3665. Corequisite: COMM 4700. SP

COMM 4790 Audio Prod for Digital Motion Pictures (3)

Required of Motion Picture Production majors. Examines real-world sound environments in producing and developing essential design and mixing skills through hands-on application of the software and student produced digital media using production techniques in ambient and studio production with specific skills in Foley, ADR, mixing and re-mixing, looping, sweetening, and addressing the theory and application of cinematic audio design using Adobe Audition, Final Cut Pro, and Pro Tools. Prerequisite: COMM 3790. SP

COMM 4800 Adv Dig Motion Pict Post-Prod (2)

Required of Motion Picture Production majors. Post-production skills are developed hands-on, integrating audio design, sweetening, and composited sequences by using non-linear editing protocols for Final Cut Pro and Adobe Premiere. Prerequisite: COMM 3680. Corequisite: COMM 4805. SP

COMM 4805 Adv Digital MP Post-Prod Lab (1)

Lab portion of COMM 4800. Prerequisite: COMM 3685. Corequisite: COMM 4800. SP

COMM 4890 Directed Study (1 - 3)

For individual Communication majors with advanced standing who wish to pursue a specific focus of study related to their degree emphasis and/or research interest not otherwise available in the current Communication curriculum. Students are closely supervised by appropriate faculty in the design and successful completion of the course. The course is dependent upon a formal contractual arrangement with the faculty mentor that is submitted at the beginning of the semester in which coursework is undertaken, and is contingent upon the department chair’s approval. Students meet with the faculty mentor each week and provide progress reports for feedback. Students are required meet the college requirement of 45 hours of work per credit. Variable credit 1.0 – 3.0. Repeatable up to 3 credits. Prerequisites: Communication major; and Instructor permission. FA, SP

COMM 4950 Communication Internship (3)

Required of all Communication majors. Internship designed to integrate students into professional communication environments to increase competencies and initiate networking. Potential environments include broadcast and feature motion picture production, corporate and business communications, public relations, journalism, etc. Repeatable up to 6 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP, SU

COMM 4980 Senior Seminar (4)

Required of all Communication majors. Requires a culminating project and related research paper and/or portfolio to allow students to demonstrate competency in and application of Communication knowledge skills. Prerequisite: Instructor permission. FA, SP, SU

CIS 1140 Basic Keyboarding (1)

For students with no prior keyboarding skills. Hands-on, self-paced course designed to help students learn beginning keyboarding skills and techniques. Successful completers will exit course with a minimum speed of 25 wpm, and are advised to enroll in CIS 1150 for further development. Course fee required. FA, SP, SU

CIS 1150 Keyboard Skill Building (2)

For students who have keyboarding skills of at least 25 wpm and wish to build basic keyboarding skills to 40 wpm and/or improve accuracy to no more than 10% error rate through hands-on instruction in a self-paced environment. Successful completers may enroll in CIS 1160 for further development. FA, SP, SU
CIS 1200 Computer Literacy (3)

Fulfills General Education Computer Literacy requirement. Open to all students. Hands-on instruction develops computer skills to access, create, analyze, process and deliver information, including study of computer concepts, operating systems, e-mail, word processing, spreadsheet, and presentation software. Grade of B- or higher fulfills prerequisite for CIS 2010. Course is self-paced with deadlines, but usually requires 6-9 hours per week for successful completion. Prerequisite: CIS 1150. FA, SP, SU

CIS 1800 Computer Info. Work Experience (1 - 3)

Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. FA

CIS 1810 Computer Info. Work Experience (1 - 3)

Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

CIS 1820 Computer Info. Work Experience (1 - 3)

Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SU

CIS 2010 Business Computer Proficiency (3)

Required of all students in the School of Business, and open to other interested students. Includes intermediate and advanced concepts in the Excel spreadsheet application and beginning through advanced concepts in the Access database application. Prerequisite: CIS 1200 (Grade B- or higher) OR CIS 1201. FA, SP, SU

CIS 2400 Word Processing Applications (3)

Open to all students who wish to expand the basic word processing skills acquired in CIS 1200 in a hand-on course. Comprehensive word processing skills including line, page, and document formatting; graphics; tables; merging; sorting; columns; styles; document generation; macros; templates; and appropriate application of each of these features to enhance the preparation and presentation of a variety of documents. Course is self-paced with deadlines. Prerequisite: CIS 1200 OR CIS 1201. FA, SP, SU

CIS 2450 Spreadsheet Applications (2)

Open to all students who wish to expand the basic spreadsheet skills acquired in CIS 1200 in a hand-on course. Includes charts, formulas, functions, and database skills as well as techniques for enhancing the layout and presentation of spreadsheet information. Course is self-paced with deadlines. Prerequisite: CIS 1200 OR CIS 1201. FA, SP, SU

CIS 2480 Business Presentation Graphics (2)

Open to all students who wish to expand the visual presentation skills acquired in CIS 1200 in a hand-on course. Includes how to present charts and graphs, computer slide presentations, and other related applications using such techniques as drawing and editing tools to format and create data charts, graphs, and personalized templates as well as using clip art. Course is self-paced with deadlines. Prerequisite: CIS 1200 OR CIS 1201. FA, SP, SU

COMPANY INFORMATION TECHNOLOGY (CIT)

CIT 1001 First Year Seminar Computing (1)

First Year Experience seminar course designed to help freshman students interested in computing adapt to college life and become integrated into Dixie State College and the Computer and Information Technology department. Students will refine academic skills, create and foster social networks, learn about college resources, explore the different options available within the CIT department, and learn about career opportunities in Computing. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1026). Students may only take one FYE course for credit. FA, SP

COMPANY SCIENCE (CS)

CS 1010 Problem Solving with Computers (3)

For any student interested in how computers are used to solve problems. This course will introduce the use of computers in problem solving including problem decomposition and algorithm construction. Students will be required to complete simple programming projects. Offered based upon sufficient student need.

CS 1400 Fundamentals of Programming (3)

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. Course fee required. FA, SP, SU

CS 1410 Object Oriented Programming (3)

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. Course fee required. Prerequisite: CS 1400 (Grade C- or higher). FA, SP

CS 2420 Intro Algorithm Data Structure (3)

Required of students pursuing a Computer Science or Information Technology degree or emphasis, open to any student with a strong interest in computer programming. Covers the design and use of common data structures, lists, stacks, queues, trees, hash tables, and graphs through completion of several challenging programming projects. Introduces computational complexity and algorithm analysis. Course fee required. Prerequisite: CS 1410 (Grade C- or higher). FA, SP

CS 2450 Software Engineering (3)

Required of students pursuing a Computer Science degree or emphasis, open to any student with a strong interest in computer programming. Covers current software engineering theory and practice through completion of a challenging team project. Course fee required. Prerequisite: CS 2420 (Grade C- or
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 2810</td>
<td>Computer Org &amp; Architecture</td>
<td>3</td>
<td></td>
<td>Required of students pursuing a Computer Science degree or emphasis, open to any student with a strong interest in computer programming. Covers digital hardware design and systems programming, including numeric representations, digital logic, processor architecture, instruction sets, assembly language, and other low-level programming topics. Course fee required. <strong>Prerequisite:</strong> CS 1410 (Grade C- or higher). FA, SP</td>
</tr>
<tr>
<td>CS 3000</td>
<td>Internet Publishing &amp; Design</td>
<td>3</td>
<td></td>
<td>For students pursuing degrees in Computer Science or Computer Information Technology. Covers Internet publishing and design principles and concepts, including interface design, PHP scripting, intermediate and advanced HTML (HyperText Markup Language) techniques, Cascading Style Sheets, XML (Extensible Markup Language), JavaScript, QuickTime Virtual Reality (QTVR), and other advanced web publishing tools. Course fee required. Dual listed with VT 3000 (students may only take one course for credit). <strong>Prerequisite:</strong> CS 2420 (Grade C- or higher). FA, SP</td>
</tr>
<tr>
<td>CS 3005</td>
<td>Programming in C++</td>
<td>2</td>
<td></td>
<td>For student pursuing degrees in Computer Science and Computer Information Technologies, or any student with a strong interest in computer programming. Covers syntax and semantics of C++ programming language through completion of hands-on projects. The student must already be fluent in some other programming language. Course fee required. <strong>Prerequisite:</strong> CS 1410 (Grade C- or higher). FA, SP</td>
</tr>
<tr>
<td>CS 3100</td>
<td>Interactive Multimedia</td>
<td>3</td>
<td></td>
<td>For students pursuing degrees in Computer Science or Computer Information Technology. Covers interactive multimedia application development. Introduces hardware and software use to integrate text, sound, graphics, animation, and video into rich-content multimedia projects through the use of various computer-based disciplines, including graphic design, digital video, interface elements, and light OOP-structured scripting. Successful students will be able to develop professionally designed interactive multimedia interfaces with rich content. Course fee required. Dual listed with VT 3100 (students may only take one course for credit). <strong>Prerequisite:</strong> CS 2420 (Grade C- or higher). FA, SP</td>
</tr>
<tr>
<td>CS 3310</td>
<td>Discrete Mathematics</td>
<td>3</td>
<td></td>
<td>For students pursuing degrees in Computer Science, or other students interested in counting theory and applications. Covers mathematical reasoning, combinatorial analysis, sets, permutations, relations, computational complexity, and Boolean logic through homework and programming assignments. Course fee required. <strong>Prerequisite:</strong> MATH 1210 (Grade C- or higher); AND CS 1410 (Grade C- or higher). FA</td>
</tr>
<tr>
<td>CS 3400</td>
<td>Operating Systems</td>
<td>3</td>
<td></td>
<td>Can be used to fulfill a requirement for students pursuing a degree or emphasis in Computer Science, and open to other students. Covers operating systems design and implementation, including processes and threads, synchronization, virtual memory, and file systems. Course fee required. <strong>Prerequisites:</strong> CS 2420 (Grade C- or higher); AND CS 2810 (Grade C- or higher). FA (Odd years)</td>
</tr>
<tr>
<td>CS 3410</td>
<td>Distributed Systems</td>
<td>3</td>
<td></td>
<td>Can be used to fulfill a requirement for students pursuing a degree or emphasis in Computer Science, and open to other students. Covers design and implementation of network applications, including message passing, concurrency, synchronization, scalability, and partial failure. Course fee required. <strong>Prerequisites:</strong> CS 2420 (Grade C- or higher); AND CS 2810 (Grade C- or higher); AND IT 2400 (Grade C- or higher). FA (Even years)</td>
</tr>
<tr>
<td>CS 3500</td>
<td>Application Development</td>
<td>3</td>
<td></td>
<td>For students pursuing degrees in Computer Science or Computer Information Technology, or others with an interest in graphical interface design and implementation. Covers the theory and practice of constructing easy to use interfaces through programming graphical environment projects in a variety of languages and platforms. Course fee required. <strong>Prerequisite:</strong> CS 1410 (Grade C- or higher). FA (Even years)</td>
</tr>
<tr>
<td>CS 3510</td>
<td>Adv Algorithms Data Structures</td>
<td>3</td>
<td></td>
<td>Required of students pursuing a Computer Science degree or emphasis. Covers the analysis and design of algorithms and data structures, including graphs, greedy algorithms, divide and conquer algorithms, and dynamic programming. Course fee required. <strong>Prerequisites:</strong> CS 2420 (Grade C- or higher); AND CS 2810 (Grade C- or higher); AND CS 3310 (Grade C- or higher). SP</td>
</tr>
<tr>
<td>CS 3520</td>
<td>Programming Languages</td>
<td>3</td>
<td></td>
<td>Required of students pursuing a Computer Science degree or emphasis. Covers the principles and concepts that characterize high-level computer programming languages, including function and data abstraction, and imperative, functional, logic and object-oriented programming techniques. Course fee required. <strong>Prerequisites:</strong> CS 2420 (Grade C- or higher); AND CS 2810 (Grade C- or higher). FA</td>
</tr>
<tr>
<td>CS 3530</td>
<td>Computational Theory</td>
<td>3</td>
<td></td>
<td>Required of students pursuing a Computer Science degree or emphasis. Covers the theory of computation, including finite-state automata, pushdown automata, Turing machines, and equivalent formalisms. Also introduces complexity theory. Course fee required. <strong>Prerequisites:</strong> CS 2420 (Grade C- or higher); AND CS 2810 (Grade C- or higher); AND CS 3310 (Grade C- or higher). SP</td>
</tr>
<tr>
<td>CS 3600</td>
<td>Graphics Programming</td>
<td>3</td>
<td></td>
<td>Required of students pursuing a Computer Science degree or emphasis, and open to other interested students. Covers 2-D and 3-D model creation, transformation, and various rendering techniques through completion of programming assignments. Course fee required. <strong>Prerequisites:</strong> CS 2420 (Grade C- or higher); AND CS 2810 (Grade C- or higher). SP</td>
</tr>
<tr>
<td>CS 4000</td>
<td>Dynamic Web Development</td>
<td>3</td>
<td></td>
<td>For students pursuing a Computer Science degree or Computer and Information Technology emphasis. Covers dynamic web development using PHP, and MySQL, including basic scripts and functions, variables, form processing, server side includes, web database integration, database design, database driven web sites, security, and web management systems with an emphasis on Web application. Course fee required. Dual listed with VT 4000 (students may only take one course for credit). <strong>Prerequisites:</strong> CS 2420 (Grade C- or higher); AND VT 1400 (Grade C- or higher). FA, SP</td>
</tr>
<tr>
<td>CS 4010</td>
<td>Interactive Web Development</td>
<td>3</td>
<td></td>
<td>For students pursuing a degree in Computer Science or Computer Information Technology. Also open to other interested students. Covers client-side JavaScript web development, including form validation, interactive web page development, DOM manipulation, client-side applications, and interaction with server-side applications. Course fee required. Dual listed with VT 4010 (students may only take one course for credit). <strong>Prerequisites:</strong> CS 2420 (Grade C- or higher); AND VT 1400 (Grade C- or higher). FA</td>
</tr>
<tr>
<td>CS 4300</td>
<td>Artificial Intelligence</td>
<td>3</td>
<td></td>
<td>Required of students pursuing a Computer Science degree or emphasis. Introduces the broad field of artificial intelligence in computer software followed by specific applications in computer gaming strategies. Students will complete programming assignments. Course fee required. <strong>Prerequisites:</strong> CS 2420 (Grade C- or higher); AND CS 2810 (Grade C- or higher). FA</td>
</tr>
<tr>
<td>CS 4550</td>
<td>Compilers</td>
<td>3</td>
<td></td>
<td>Required of students pursuing a Computer Science degree or emphasis. Covers compiler design and implementation, including lexical analysis, parsing, symbol table management, and generating code through challenging programming assignments. Course fee required. <strong>Prerequisites:</strong> CS 2420 (Grade C- or higher); AND CS 2810 (Grade C- or higher). SP</td>
</tr>
</tbody>
</table>
COMP 1100  Beg Computer & Internet Oper (1)

For students who need a foundation in the basic operations of a personal computer in a hands-on course, including the basics of computer hardware and software, the Windows operating system, computer concepts, Internet basics, Web browsers, email, and accessories programs. Course is self-paced with deadlines.  FA, SP, SU

COMP 1210  Beginning HTML (1)

Open to all students interested in preparing documents for viewing on the World Wide Web. Introduction to HyperText Markup Language, including Web page format, tables, frames, and linking to graphics and other documents. FA, SP, SU

COMP 1310  Microsoft Word Fundamentals (1)

For students who have a foundation in the basic operations of a personal computer and want basic skills using word processors to prepare, edit, and manipulate text. Includes creating, saving, and printing documents; formatting characters, lines, and pages; file management; fonts; spelling, grammar, and thesaurus writing tools; inserting graphic images; and table basics. Self-paced (with deadlines), hands-on course. Recommended prerequisite: COMP 1100 or equivalent skill. FA, SP, SU

COMP 1410  Microsoft Excel for Windows (1)

For students who have a foundation in the basic operations of a personal computer and want a basic skills in using computer spreadsheets, including layout and labeling, entering and editing data, the use of mathematical functions for calculations, graphing, and charting results. Self-paced (with deadlines), hands-on course. Recommended prerequisite: COMP 1100 or equivalent skill. FA, SP, SU

COMP 1430  Fin Recordkeeping: Quicken (1)

For all students with an interest in keeping personal financial records. Introduces and gives hands-on practice with Quicken, a software program that organizes interrelated account, transaction, credit, and investment information. Course is self-paced with deadlines. Recommended prerequisite: COMP 1100 or equivalent skill. FA, SP, SU

COMP 1435  Fin Recordkeeping: QuickBooks (1)

For all students with an interest in keeping financial records. Introduces and gives hands-on practice with QuickBooks Pro, accounting software for businesses, including invoicing, accounts receivable, accounts payable, payroll, job costing, and report processing. Course is self-paced with deadlines. Recommended prerequisite: COMP 1100 or equivalent skill. FA, SP, SU

COMP - 1600  Database Apps Microsoft Access (1)

For students interested in database management using Microsoft Access. Includes procedures and processes used in creating and maintaining a database. Includes creating tables, forms, reports, querying data in one or several tables, and mailing labels. Self-paced (with deadlines), hands-on course. Recommended prerequisite: COMP 1100 or equivalent skill. FA, SP, SU

COMP - 1700  Presentation Apps: PowerPoint (1)

For students interested in creating presentations using Microsoft PowerPoint. Introduces preparing, editing, and manipulating slides, including changing slide layout and design, inserting graphics objects, formatting text and tables in slides, and preparing slides and supplements for printing. Self-paced (with deadlines), hands-on course. Recommended prerequisite: COMP 1100 or equivalent skill. FA, SP, SU

COOP 1800  General Cooperative Education (1 - 3)

General Cooperative Education will provide on-the-job training. Eagerness, dependability, willingness, attitude and human relation goals will be set. A student will be able to explore 3 different fields of study. Students like any other COOP, will meet with the instructor-coordinator and employer, at the beginning of the course to determine objectives, number of credit hours, hours to work, and to sign a credit agreement. Students are limited to four cooperative education credit courses or 12 cooperative education credits. FA

COOP 1810  General Cooperative Education (1 - 3)

General Cooperative Education will provide on-the-job training. Eagerness, dependability, willingness, attitude and human relation goals will be set. A student will be able to explore 3 different fields of study. Students like any other COOP, will meet with the instructor-coordinator and employer, at the beginning of the course to determine objectives, number of credit hours, hours to work, and to sign a credit agreement. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

COOP 1820  General Cooperative Education (1 - 3)

General Cooperative Education will provide on-the-job training. Eagerness, dependability, willingness, attitude and human relation goals will be set. A student will be able to explore 3 different fields of study. Students like any other COOP, will meet with the instructor-coordinator and employer, at the beginning of the course to determine objectives, number of credit hours, hours to work, and to sign a credit agreement. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SU

CRIMINAL JUSTICE (CJ)

CJ 1001  FYE: Criminal Justice (1)

First Year Experience course designed to help freshmen interested in criminal justice become acquainted with the discipline, this course will also help students adapt to college life and become integrated into Dixie State College. Students will refine academic skills; create and foster social networks; learn about college resources; and explore degree options, current job opportunities, and various career paths. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1026). Students may only take one FYE course for credit. FA

CJ 1010  Intro to Criminal Justice (3)

For students interested in careers in law enforcement, adult or juvenile corrections, law, private or industrial security, counseling, or criminology, and persons interested in the functioning of the U. S. criminal justice system. Examines the criminal justice system, police, courts, corrections, and related government functions and agencies. Identifies and explores problems, issues and trends in criminal justice. Uses a variety of teaching methods, including lecture, videos,
CJ 1013 Fraud and the Internet (3)
For students enrolled in a Southwest Regional Computer Crime Institute program. Exploration of the tools, methods, and strategies for preventing, detecting, and combating fraud perpetrated over the World Wide Web and the Internet, including phishing, click fraud, Internet scams, online auction fraud, and other forms of business fraud. Course fee required. **Prerequisite:** Instructor permission. **SP**

CJ 1014 Antm of Automated Info Sysms (3)
For students enrolled in a Southwest Regional Computer Crime Institute program. Comprehensive study of current and developing information systems and networks, including architectures and technologies information infrastructure, as well as integration and adoption patterns for networks, operating systems, databases, and applications. Course fee required. **Prerequisite:** Instructor permission. **SP**

CJ 1070 Special Function Officer Traing I (6)
Restricted to students enrolled in Module I of the law enforcement academy program leading to State certification as a Special Function Officer. Counts as elective credit toward an AS or BS in criminal justice for completion of Module I of the Peace Officer Standards and Training (POST) certification. Course work includes physical training, administration, certification, career orientation, criminal and traffic laws, and the proper means of enforcing them. Ethics and professionalism as well as police community relations are emphasized. **Prerequisite:** Instructor permission. Offered in rotation; consult class schedule.

CJ 1080 Law Enforcement Officer Traing II-I (6)
Restricted to students enrolled in Module II of the law enforcement academy program leading to State certification as a Law Enforcement Officer Training. Counts as elective credit toward an AS or BS in criminal justice for completion of Module II of the Peace Officer Standards and Training (POST) certification. Course includes physical training, completes the first portion of the law enforcement training required by the state of Utah to become a law enforcement officer certified. Emphasizes firearms, emergency vehicle operation, and arrest, control techniques. **Prerequisite(s):** CJ1070 and instructor permission. Offered in rotation; consult class schedule.

CJ 1090 Law Enforcement Officer Traing II-II (7)
Restricted to students enrolled in Module II of the law enforcement academy program leading to State certification as a Law Enforcement Officer Training. Counts as elective credit toward an AS or BS in criminal justice for completion of Module II of the Peace Officer Standards and Training (POST) certification. Course includes physical training, completes the second portion of the law enforcement training required by the state of Utah to become a law enforcement officer certified. Emphasizes firearms, emergency vehicle operation, and arrest, control techniques. **Prerequisite(s):** CJ1080 and instructor permission. Offered in rotation; consult class schedule.

CJ 1300 Intro to Corrections (3)
For students interested in careers in law enforcement, adult or juvenile corrections, private or industrial security, or law, or criminology. Examines corrections philosophy, history, punishment of offenders, and rehabilitation. Also identifies problems, issues and trends in the corrections system. Uses lectures, videos, guest lecturers and assigned text study. Develops a foundation for a career in corrections or law enforcement. **Prerequisite:** ENGL 1010 (can be concurrently enrolled) and CJ 1010. **FA, SP**

CJ 1330 Criminal Law (3)
For students interested in careers in law enforcement; adult or juvenile corrections; law, private or industrial security; or criminology, as well as those who may desire to learn about criminal law in society. Provides a foundational understanding of criminal law, including crimes and defenses, as well as the historical foundation, limits, purposes, and functions of criminal law, using lectures, videos, guest lecturers, and assigned text study. **Prerequisite:** ENGL 1010 (can be concurrently enrolled) and CJ 1010. **FA, SP**

CJ 1340 Criminal Investigation (3)
For students interested in careers in law enforcement, adult or juvenile corrections, private or industrial security, or law. Includes interviewing witnesses and suspects, techniques in the collection and preservation of evidence; crime scene processing, including some post-crime scene processing of evidence; follow-up investigation and recent techniques of enhancing the criminal investigation function. Also provides an opportunity for in-depth examination of the investigation needs of certain crimes using lectures, videos, guest lecturers and assigned text study. **Prerequisite:** ENGL 1010 (can be concurrently enrolled) and CJ 1010. **SP**

CJ 1390 Police Field Operations (3)
Provides students with the knowledge needed by patrol and field officers, including an understanding of report writing as well as officer field note taking. Covers interviewing witnesses, search, seizure, arrest, and custody. Course covers Tennessee v. Gardner and the use of force doctrine and how it applies in field operations. **Prerequisites:** ENGL 1010 (can be concurrently enrolled) and CJ 1010. Offered based on student need.

CJ 1800 Criminal Justice Work Exper. (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. **FA**

CJ 1810 Criminal Justice Work Exper. (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. **SP**

CJ 1820 Criminal Justice Work Exper. (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. **SU**

CJ 1900 Intro Computer Related Crime (3)
Skills-based course introducing computer crime through an overview of the criminal acts that can be committed using a computer or the Internet, and how those acts can be successfully investigated. Also includes the legal aspects of search and seizure, proper procedures for handling digital evidence in relation to the rules of evidence, and the use of basic imaging equipment. Requires 6 hours in the lab each week. **FA, SP**

CJ 2020 Criminal Justice Supervision (3)
For students interested in careers in law enforcement, adult or juvenile corre-
CJ 2310 Computerized Legal Research (3)
Enables students to examine the legal issues of a factual situation. The student will do some limited legal research through available online resources. It will also cover the writing of legal memorandums and legal briefs. Prerequisite: CJ 1010. Offered based on student need.

CJ 2330 Juvenile Justice (3)
For students interested in careers in law enforcement, adult or juvenile corrections, private or industrial security, or the teaching. Examines the origin, philosophy and development of the juvenile justice system, juvenile court, relationship of various segments of the juvenile justice system and also examines theories of juvenile criminality and trends in treatment. Uses lectures, videos, guest lecturers and assigned text study. Provides a foundation for work with juveniles. Prerequisite: ENGL 1010 (Grade C or higher) and CJ 1010. SP

CJ 2350 Laws of Evidence (3)
For students interested in careers in law enforcement, adult or juvenile corrections, private or industrial security, law, criminalontology, school counseling, or teaching. Examines the origin, philosophy and development of the juvenile justice system, juvenile court, relationship of various segments of the juvenile justice system and also examines theories of juvenile criminality and trends in treatment. Uses lectures, videos, guest lecturers and assigned text study. Provides a foundation for work with juveniles. Prerequisite: ENGL 1010 (Grade C or higher) and CJ 1010. SP

CJ 2360 Juvenile Law & Procedure (3)
For students interested in careers in law enforcement, adult or juvenile corrections, private or industrial security, law, criminalontology, school counseling, or teaching. Examines the origin, philosophy and development of the juvenile justice system, juvenile court, relationship of various segments of the juvenile justice system and also examines theories of juvenile criminality and trends in treatment. Uses lectures, videos, guest lecturers and assigned text study. Provides a foundation for work with juveniles. Prerequisite: ENGL 1010 (Grade C or higher) and CJ 1010. SP

CJ 2500 Computer Hardware Basics (3)
Skills-based course introducing basic hardware and software using lecture and hands-on, practical application. Successful completion of the course prepares students to pass the A+ certification exam, the standard in foundational, vendor-neutral computer certification. Requires 6 hours in the lab each week. SP

CJ 2700 Intro to Digital Forensics (3)
Skills-based course introducing the digital forensic process, including evidence processing, preservation, analysis, and presentation. Also includes digital evidence basics, data recovery, and some cyber law issues. Requires 6 hours in the lab each week. SP

CJ 3020 Cyber Law (3)
Explains and identifies major court cases and legislative law relating to computer crime, including a basic understanding of legal liability and responsibilities in regards to computer and seizure issues. Prerequisite: CJ 1010. Offered based on sufficient student need.

CJ 3100 Profiling Criminal Behavior (3)
An historical and theoretical exploration of deviant behavior specifically analyzing particular forms of deviant behavior such as murder and rape, among other crimes. These other topics will be discussed using the criminal thinking approach; sociopathic and psychopathic behavior analysis; and life course perspectives. Prerequisite: CJ 1010. FA (odd)

CJ 3200 Policing in U.S. Society (3)
Explores law enforcement at the local, state, and federal levels, introducing the nature of policing, a history of policing in the United States, different types of law enforcement agencies, different roles of police in our society, how police respond to crime, problems in policing, and experiences of police officers. Prerequisite: CJ 1010. SP

CJ 3270 Criminology (3)
Focuses on theories and research of crime causation, using a variety of criminological theories to analyze biological, psychological, and social factors that have been shown to contribute to criminal behavior. Prerequisites: ENGL 1010 (Grade C or higher), AND CJ 1330 and CJ 1340. FA

CJ 3300 Research Methods Criminology (3)
Emphasizes the practical application of basic research practices to tests of criminological theory as well as law enforcement and corrections problems. Students gain the knowledge necessary to interpret pertinent research in their area of interest. Prerequisites: ENGL 1010 (Grade C or higher); CJ 1010 and MATH 1040. SP

CJ 3320 Criminal Procedure (3)
Examines procedural requirements for judicial processing of criminal offenders, including the rights of the accused, general court procedures, trial preparation, and principal constitutional law as applicable to criminal justice practitioners. Prerequisite: CJ 3270. Offered upon sufficient student need.

CJ 3400 Drugs and Crime (3)
Explains the international aspect of the growth, production and distribution of controlled dangerous substances, including the manufacture, cultivation, and distribution of controlled dangerous substances in the United States as well as strategies that have been used to combat the problem. Prerequisite: CJ 3270. Offered based on sufficient student need.

CJ 3810 Advanced Digital Forensics (3)
Skills-based course exploring advanced issues in digital forensics. Topics will be determined by student interest, but may include lab assignment involving current issues such as steganography, encrypted file systems, advanced data recovery, and digital triage. Requires 6 hours in the lab each week. Prerequisite: CJ 2700 or CJ 3800. SP

CJ 3820 Crime Scene Invest Techniques (3)
Areas covered will be documentation of the crime scene as well as handling and chain of custody of evidence. The class will also cover the understanding of report writing and photography at the crime scene. Prerequisite: CJ 1010. Offered based on sufficient student need.

CJ 3900 Digital Forensics Tools (3)
Skills-based course designed to familiarize students with tools available to the digital forensic examiner. Topics include examination of email messages, deleted files, free space, file slack, and password recovery. In addition, students will learn to search for and export graphic files, gain access to encrypted files, and prepare forensic examination reports. Requires 6 hours in the lab each week. Prerequisite: CJ 1900 or CJ 2700 or CJ 3800. SP

CJ 3940 Windows Forensics (3)
Skills-based course focusing on advance search and filtering of Windows artifacts, including the recycle bin, file metadata and OLE items, print spools and remnants, unallocated data carving, Windows logs, and link files. In addition, Windows registry items, live registry capture, and carving registry key information from dumped memory files will be covered. Upon successful completion, student will be prepared to take the AccessData Certified Examiner (ACE) test. Requires 6 hours in the lab each week. Prerequisite: CJ 3900. FA
COURSE DESCRIPTIONS

Skills-based course focusing on advance search and filtering of Windows artifacts, including the recycle bin, file metadata and OLE items, print spoolers and remnants, unallocated data carving, Windows logs, and link files. In addition, Windows registry items, live registry capture, and carving registry key information from dumped memory files will be covered. Upon successful completion, student will be prepared to take the AccessData Certified Examiner (ACE) test. Requires 6 hours in the lab each week. Prerequisite: CJ 3900. FA

CJ 4020 Urban Crime (3)
Focuses on crime in the inner-city, the most crime-ridden areas in our country; examines urban crime typologies and their possible causes. Specifically, this course covers gang violence, the illegitimate economy of the inner-city, the policies designed to help combat the high crime rates of urban areas, and more. Prerequisites: CJ 3270 and CJ 3300. FA

CJ 4100 Social Control (3)
Closely examines the mechanisms of social control, including formal means through the criminal justice system and informal means through familial and communal institutions. Covers punitive measures used in the criminal justice system, the behavioral influence of social control mechanisms, the ethics of policies of social control, and more. Prerequisites: CJ 3270 and CJ 3300. FA

CJ 4200 Ethical Issues in CJ (3)
For students interested in careers in law enforcement, adult or juvenile corrections, law, or criminology. Examines criminal justice system, police, courts, corrections, and related government functions and agencies, identifying and exploring ethical problems, issues, and trends. Prerequisite: CJ 3270 and CJ 3300. Offered based on sufficient student need.

CJ 4250 MAC Forensics (3)
Skills-based course covering digital forensic investigations on Apple computers, including Macintosh architecture, HFS+ based file systems, alternate methods of data acquisition, chat archives, Internet artifacts in Safari and Firefox, and iPod and iPhone analysis. Requires 6 hours in the lab each week. Prerequisite: CJ 2700. SP

CJ 4700 File System Analysis (3)
Skills-based course the analysis for digital media at the file system level, including NTFS, FAT, and less popular file systems. Requires 6 hours in the lab each week. Prerequisites: CJ 2700 and (CJ 3800 or CJ 3900). FA

CJ 4750 Small Device Forensics (3)
Skills-based course exploring the digital forensic examination of various small scale digital devices such as personal digital assistants, cell phones, GPS devices, and MP3 players. Focuses on specific search and seizure issues with these devices, how forensic challenges differ from those present with personal computers, and the technical issues commonly encountered during examination. Requires 6 hours in the lab each week. Prerequisites: CJ 2700 and (CJ 3800 or CJ 3900). FA

DANCE (DANC)

DANC 1010 Dance Appreciation (3)
Fulfills General Education Fine Arts requirement. For all students with an interest in dance. Introduces basics of dance: the definition, history, different types and styles, as well as an understanding of and appreciation for dance as an art form. Successful completers will be familiar with individuals who have made significant contributions to the field of dance and will be able to make certain critical analyses of dance through identification of style, form, content, and technique. Involves lecture, videos, observation, and participation. FA, SP

DANC 1100 Classical Ballet I (2)
For students pursuing a major in Dance, and for others interested in developing ballet skills. Introduces the fundamentals of classical ballet through movement, including body alignment, technical skills (barre and center) and ballet terminology, in a structured studio setting. Repeatable up to 6 credits subject to graduation restrictions. FA

DANC 1170 Social Dance (1)
Beginning ballroom dance course open to all students interested in developing skills in social dance. Introduces basic ballroom dance movements and routines, as well as specific demands of correct partner work. Includes studio instruction in selected dances, and mastery of step patterns, movement quality, and style. FA, SP

DANC 1200 Modern Dance I (2)
For students pursuing a major in Dance, and for others interested in developing modern dance skills. Introduces basic modern dance movements and an understanding of an appreciation for modern dance in a studio setting. Repeatable up to 6 credits subject to graduation restrictions. FA, SP

DANC 1500 Jazz Dance I (2)
For students pursuing a major in Dance, and for others interested in developing jazz dance skills. Introduces American jazz dance with an emphasis on technique. Rhythmic structures and personal expression will be explored in a studio setting. FA

DANC 1510 Ballroom Dance I Standard (1)
For students interested in developing skills in International Standard Ballroom Dance, including Waltz, Foxtrot, Tango, and Quickstep. Emphasizes beginning skills of correct dance position, rhythm, footwork, and etiquette in a studio setting. FA, SP

DANC 1520 Ethnic Dance I (1)
For students pursuing a major in Dance, and for others interested in developing skills in international ethnic / folk dance. Introduces students to dance styles from around the world. Students will learn standard steps and formations for a variety of dances in a studio setting. Offered based upon sufficient student need.

DANC 1530 Ballroom Dance I/Int’l Latin (1)
For students interested in developing skills in International Latin Ballroom dance, including Cha-Cha, Samba, Rumba, and Jive. Emphasizes beginning skills of correct dance position, rhythm, footwork, and etiquette in a studio setting. FA

DANC - 1540 Movement for Musical Theatre (1)
For students pursuing majors in Dance, Music, or Theatre, and for other students interested in developing skills in dance movement styles for musical theatre. Covers style and technique in preparation for Dixie State College musical theatre productions, and can include tap and character dance. Taught in a structured studio setting. Repeatable up to 4 credits subject to graduation restrictions. Offered based upon sufficient student need.

DANC 1580 Tap Dance (1)
For Dance students and for others interested in developing tap dance skills. Introduces basic tap dance movements and an appreciation for tap dance in a studio setting. Repeatable up to 3 credits subject to graduation restrictions. FA, SP

DANC 1800 Dance Company I (2)
For students who are members of the Dixie State College Dance Company. Includes dance techniques, performing skills, artistic impression aspects of dance performance, emphasizing the development of personal discipline and collaborative skills through rehearsal and performance of dance. Audition required. Repeatable up to 6 credits subject to graduation restrictions. Course fee required. Prerequisite: Instructor permission. FA, SP
DANC 1810 Ballroom Dance Team I (1)
For members of the competitive ballroom dance team. Prepares students for participation in exhibition and competitive ballroom dance activities, focusing on skill development, stage presentation, and actual performance. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Audition required. Prerequisite: Instructor permission. Corequisite: DANC 1510 or DANC 1530 or DANC 2510 or DANC 2530. Fa, Sp

DANC 1900 Dance Composition I (2)
For students pursing a major in Dance, and for other students interested in developing skills in dance composition. Fundamentals concepts of dance composition/ choreography are explored, and the elements of space, time, and qualities of movement are the basis for compositional study. Requires some previous dance experience. Prerequisite: Instructor permission required. Offered based upon sufficient student need.

DANC 2100 Classical Ballet II (2)
For students pursing a major in Dance, and for others interested in developing ballet skills. Continuing DANC 1100, focuses on progression and development of ballet vocabulary and technical skills, with increased difficulty at the barre, center floor, and traveling steps, in a structured studio format. Repeatable up to 6 credits subject to graduation restrictions. Prerequisite: DANC 1100. Sp

DANC 2200 Modern Dance II (2)
For students pursing a major in Dance, and for others interested in developing modern dance skills. Continued study of modern dance movements and an understanding of an appreciation for modern dance in a structured studio setting. Repeatable up to 6 credits subject to graduation restrictions. Fa, Sp

DANC 2221 Pointe I (1)
Students with at least basic ballet experience will gain an understanding of the correct way to arrive en pointe with one or two feet, and grow in strength and agility within the classical ballet repertoire. Successful completers will be able to successfully execute a short, simple variation en pointe. Offered based upon sufficient student need.

DANC 2500 Jazz Dance II (2)
For students pursing a major in Dance, and for others interested in developing jazz dance skills. Continuing DANC 1500, focuses on more difficult combinations and introduces performance styles so students will further develop a personal style of movement in a structured studio setting. Repeatable up to 6 credits subject to graduation restrictions. Sp

DANC 2510 Ballroom Dance II - Intn'l Std (1)
Continuation of DANC 1510. Further development of in International Standard Ballroom Dance, including Waltz, Foxstot, Tango, and Quickstep. Greater emphasis is given to footwork, posture, movement, rhythm, and alignment in an enjoyable, structured class. Prerequisite: DANC 1510. Fa, Sp

DANC 2530 Ballroom Dance II, Intn'l Latin (1)
Continuation of DANC 1530. Further development of in International Standard Ballroom Dance, including Samba, Cha Cha, Rumba, Paso Doble and Jive. Greater emphasis is given to footwork, posture, movement, rhythm, and alignment in an enjoyable, structured class. Prerequisite: DANC 1530. Fa, Sp

DANC 2800 Dance Company II (2)
For students who are members of the Dixie State College Dance Company. Includes dance techniques, performing skills, artistic impression aspects of dance performance, emphasizing the development of personal discipline and collaborative skills through rehearsal and performance of dance. Audition required. Repeatable up to 6 credits subject to graduation restrictions. Course fee required. Prerequisite: Instructor permission. Fa, Sp

DANC 2810 Ballroom Dance Team II (1)
For members of the competitive ballroom dance team. Prepares students for participation in exhibition and competitive ballroom dance activities, focusing on skill development, stage presentation, and actual performance. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Audition required. Prerequisite: Instructor permission. Corequisite: DANC 1510 or DANC 1530 or DANC 2510 or DANC 2530. Fa, Sp

DANC 3000 Modern Dance III (2)
For students pursing a major in Dance. Advanced course in modern dance technique in continuation of DANC 2200. Increased difficulty will enhance the quality of modern dance movements, as well as technical and performing skills. Prerequisite: DANC 2200. Offered based on sufficient student need.

DHYG 1001 Intro Dental Hygiene/FYE (1)
Introduction to Dental Hygiene. A first year experience class designed to orient students to the profession of dental hygiene. Strongly recommended for entering freshman and transfer students that are considering a career in dental hygiene. Students will learn basic dental terms and gain dental knowledge to prepare them for the admissions exam into the DSC dental hygiene program. The course will also help students adapt to college life and become integrated into Dixie State College. Students will refine academic skills, create and foster social networks, and learn about college resources. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1026). Students may only take one FYE course for credit. Fa

DHYG 1010 Dental Hygiene Theory I (4)
Covers the theoretical foundations of preventative oral health services used in the dental hygiene process. Emphasizes prevention of disease transmission, body mechanics, patient assessment, basic dental hygiene instrumentation, oral healthcare planning, extrinsic stain removal, topical anesthesia, ethical decision making, and the role and responsibilities of the dental hygienist. Prerequisite: Admission to the Dixie State College Dental Hygiene program. Fa

DHYG 1015 Dental Hygiene Clinic I (3)
Clinical portion of DYHG 1010, including clinical and laboratory application of introductory skills essential to rendering oral health services to patients with emphasis on basic dental hygiene instrumentation. Course fee required. Prerequisite: Admission to the Dixie State College Dental Hygiene program. Fa

DHYG 1800 Dental Hygiene Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. Fa

DHYG 1810 Dental Hygiene Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. Sp
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits.

**DHYG 2020 Radiology (2)**
Covers the nature and production of X-rays and basic principles and procedures in oral radiology. Emphasizes radiation physics; radiation biology; radiation protection; basic intraoral radiographic techniques; film processing; and mounting procedures as well as supplemental intraoral, extraoral, and localization techniques; radiographic interpretation; and patient management topics. **Prerequisite:** Admission to the Dixie State College Dental Hygiene program. FA

**DHYG 2025 Radiology Clinic (1)**
Clinical portion of DYHG 2020, emphasizing intraoral radiographs on mannequins and patients. **Prerequisite:** Admission to the Dixie State College Dental Hygiene program. FA

**DHYG 2040 Tooth Morphology (1)**
Covers the structures that make up the roof, the floor, and the lateral borders of the oral cavity proper at all stages of development, including oral cavity, tooth functions, terminology, fundamental and preventative curvatures of the oral cavity, the dentition, the development, form, eruption of the teeth, occlusion, dental anomalies, supporting structures of the teeth, clinical consideration of dental anatomy, tooth identification and morphology, and examination of deciduous dentition. **Prerequisite:** Admission to the Dixie State College Dental Hygiene program. FA

**DHYG 2045 Tooth Morphology Lab (1)**
Laboratory portion of DYHG 2040. **Prerequisite:** Admission to the Dixie State College Dental Hygiene program. FA

**DHYG 2062 Medical Emergencies (3)**
Covers psycho-social, physical and oral characteristics of patients with special needs. Also included are the care and clinical management of special needs patients and management of medical emergencies in the clinical setting. **Prerequisite:** Admission to the Dixie State College Dental Hygiene program. FA

**DHYG 2072 Oral Anat Histology Embryology (4)**
Cover the structure and anatomical systems of head and neck. Emphasizes bones, muscles, blood supply, glandular tissue, TMJ, nervous system, lymphatic’s, fascia and spaces, dental infection, the eye, the ear, and local dental anesthesis that have dental significance. Comprehensive presentation of embryonic and general histological fetal and postnatal development of tissues and structures of the head and oral cavity, including tooth development. Multiple listed with BIOL 3050; students may take only one course for credit. **Prerequisite:** Admission to the Dixie State College Dental Hygiene program. FA

**DHYG 2510 Dental Hygiene Theory II (3)**
Continuation of the study of the theoretical foundations of preventative and therapeutic oral health services used in the dental hygiene process with emphasis on preparation for patient care. **Prerequisite:** Admission to the Dixie State College Dental Hygiene program. SP

**DHYG 2517 Dental Hygiene Clinic II (4)**
Clinical portion of DYHG 2510. Course fee required. **Prerequisite:** Admission to the Dixie State College Dental Hygiene program. SP

**DHYG 2520 General/Oral Pathology (3)**
Analysis of the principles of disease processes and general pathology, including cell injury, inflammation, neoplasia, and circulatory disturbances. Following this, the study of pathology of the teeth and the supporting and associated oral structures will be evaluated, with emphasis on the clinical and radiological appearance of local and systemic disease processes affecting the oral and facial structures. **Prerequisite:** Admission to the Dixie State College Dental Hygiene program. SP

**DHYG 2530 Pharmacology (2)**
Preparation, chemical formula, effects, and applications of pharmacological and therapeutic agents are analyzed, including medical agents used in the prevention and management of emergencies in the dental field. Emphasis will be placed on prescription and nonprescription drugs commonly used by patients which may require the alteration of treatment procedures and/or medications used in the dental setting. **Prerequisite:** Admission to the Dixie State College Dental Hygiene program. SP

**DHYG 2540 Periodontics I (3)**
Principles of periodontology involving assessment, etiology, risk factors, and classification of periodontal disease; basic treatment planning; and non-surgical periodontal therapy, as well as various types of therapeutic techniques available. **Prerequisite:** Admission to the Dixie State College Dental Hygiene program. SP

**DHYG 2580 Dental Materials (1)**
Introduction to various dental products and materials with a comprehensive background in the art and science of dental materials use, including the physical properties, advantages, and disadvantages of metals, hydrocarbons, and other dental materials, as well as evaluation of allergenicity and other complications that may arise as a result of the use of these materials. **Prerequisite:** Admission to the Dixie State College Dental Hygiene program. SU

**DHYG 2585 Dental Materials Lab (1)**
Laboratory portion of DYHG 2580. **Prerequisite:** Admission to the Dixie State College Dental Hygiene program. SU

**DHYG 3015 Dental Hygiene Clinic IV (5)**
Service Learning course. Supervised experience in the clinical setting with continued development of clinical proficiency and decision making in rendering comprehensive preventive oral health services using dental hygiene processes. Emphasis on clinical appreciation and development of skills in maintenance, management and evaluation of the periodontal patient; treatment planning; disease control; scaling and root planning for the periodontally involved patient; and increased treatment in the expanded duties of the dental hygienist. Course fee required. **Prerequisite:** Admission to the Dixie State College Dental Hygiene program. FA

**DHYG 3020 Special Needs (2)**
Service learning course that covers the psycho-social, physical and oral characteristics of special needs patients in the clinical setting, including active involvement in teaching, treating, and managing the case of the special needs patient in the local community. Involves clinical experience with the special needs community. **Prerequisite:** Admission to the Dixie State College Dental Hygiene program. FA

**DHYG 3030 Periodontics II (3)**
Continuation of DYHG 2540 with emphasis on aggressive forms of periodontal disease, periodontal treatment planning, maintenance procedures, surgical procedures, related systemic diseases and therapy. **Prerequisite:** Admission to the Dixie State College Dental Hygiene program. FA

**DHYG 3050 Legal & Ethical Issues (2)**
Current legal and ethical issues that influence the practice of dental hygiene. **Prerequisite:** Admission to the Dixie State College Dental Hygiene program. FA
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHYG 3055</td>
<td>Expanded Functions Clinic I</td>
<td>1</td>
<td>Clinical introduction to various dental functions in the dental practice, including taking impressions, selecting and placing different restorative materials, and polishing and contouring restorations. Lab fee required. <strong>Prerequisite:</strong> Admission to the Dixie State College Dental Hygiene program. <em>SU</em></td>
</tr>
<tr>
<td>DHYG 3060</td>
<td>Community Dental Health I</td>
<td>2</td>
<td>Introduction to the principles of dental public health, community dental health education and community program planning in order to prepare the dental hygiene students for the role of dental public health practitioner, educator, consultant, and resource in community setting through the development of educational learning activities and visual aids designed for diverse community groups. <strong>Prerequisite:</strong> Admission to the Dixie State College Dental Hygiene program. <em>FA</em></td>
</tr>
<tr>
<td>DHYG 3065</td>
<td>Community Dental Health I Clinic</td>
<td>1</td>
<td>Service Learning course. Clinical portion of DHYG 3060. <strong>Prerequisite:</strong> Admission to the Dixie State College Dental Hygiene program. <em>FA</em></td>
</tr>
<tr>
<td>DHYG 3515</td>
<td>Dental Hygiene Clinic V</td>
<td>5</td>
<td>Service Learning course. Supervised experience in the clinical setting with continued development of clinical proficiency and decision making in rendering comprehensive preventive oral health services using dental hygiene processes. Emphasis on clinical appreciation and development of skills in maintenance, management and evaluation of the periodontal patient; treatment planning; disease control; scaling and root planning for the periodontally involved patient; and increased treatment in the expanded duties of the dental hygienist. Course fee required. <strong>Prerequisite:</strong> Admission to the Dixie State College Dental Hygiene program. <em>FA</em></td>
</tr>
<tr>
<td>DHYG 3555</td>
<td>Expanded Functions Clinic II</td>
<td>1</td>
<td>Continuation and amplification of skills developed in DHYG 3850 and DHYG 30555, emphasizing clinical experience in restorative expanded functions and four-handed dentistry. Course fee required. <strong>Prerequisite:</strong> Admission to the Dixie State College Dental Hygiene program. <em>SP</em></td>
</tr>
<tr>
<td>DHYG 3565</td>
<td>Community Dental Health II Clinic</td>
<td>1</td>
<td>Service Learning course. Continuation of DHYG 3060/3065: clinical experience associated with community dental health. <strong>Prerequisite:</strong> Admission to the Dixie State College Dental Hygiene program. <em>SP</em></td>
</tr>
<tr>
<td>DHYG 3570</td>
<td>Dental Hygiene Practice Mgmt</td>
<td>1</td>
<td>Aids student in preparing for national, regional, and state boards and entries into private dental hygiene practice. <strong>Prerequisite:</strong> Admission to the Dixie State College Dental Hygiene program. <em>SP</em></td>
</tr>
<tr>
<td>DHYG 3580</td>
<td>Advanced Clinical Studies</td>
<td>1-3</td>
<td>Opportunity to acquire additional clinical experience (45 hours supervised clinical time per credit) as required to remediate, maintain, or improve the clinical skills of dental hygiene students or graduates. Prerequisites can also be met by having an AAS in Dental Hygiene, or by permission of the Dental Hygiene Program Director. Variable Credit: 1.0 – 3.0. Repeatable up to 3 credits subject to graduation restrictions. Course fee required. <strong>Prerequisites:</strong> DHYG 1015; and DHYG 2517; and DHYG 3015; and DHYG 3515. Offered by arrangement.</td>
</tr>
<tr>
<td>DHYG 3815</td>
<td>Dental Hygiene Clinic III</td>
<td>2</td>
<td>Offers student dental hygienist increased experience and continual development of clinical proficiency and decision making in providing comprehensive preventative oral health services. This is a service learning course. <strong>Prerequisite:</strong> Admission to the Dixie State College Dental Hygiene program. <em>SU</em></td>
</tr>
<tr>
<td>DHYG 3850</td>
<td>Expanded Functions Lab</td>
<td>1</td>
<td>Online course covering the knowledge, skills, and attitudes that are vital for clinical introduction to various dental functions in the dental practice, including taking impressions, selecting and placing different restorative materials, and polishing and contouring restorations. Lab fee required. <strong>Prerequisite:</strong> Admission to the Dixie State College Dental Hygiene program. <em>SU</em></td>
</tr>
<tr>
<td>DHYG 3890</td>
<td>Pain Control Methodology</td>
<td>1</td>
<td>Introduces the administration of local anesthetics and nitrous oxide/oxygen analgesia. Use of pharmacological agents in the dental office are compared, contrasted, and justified. Covers physical and emotional evaluation and consideration of patients, as well as anatomical and neurophysical characteristics. Management of medical emergencies is analyzed and related to pharmacological agents used in the dental setting. <strong>Prerequisite:</strong> Admission to the Dixie State College Dental Hygiene program. <em>SP</em></td>
</tr>
<tr>
<td>DHYG 3895</td>
<td>Pain Control Methodology Clinic</td>
<td>1</td>
<td>Clinical portion of DHYG 3890. Allows the student to practice the administration of local anesthetic and nitrous oxide/oxygen analgesia to patients. <strong>Prerequisite:</strong> Admission to the Dixie State College Bachelor’s of Dental Hygiene program. <em>FA</em></td>
</tr>
<tr>
<td>DHYG 4010</td>
<td>Biostatistics &amp; Epidemiology</td>
<td>3</td>
<td>Online course covering principles and methods of epidemiologic investigation and the use of classical statistical approaches to describe the oral health of populations. <strong>Prerequisite:</strong> Admission to the Dixie State College Bachelor’s of Dental Hygiene program. <em>FA</em></td>
</tr>
<tr>
<td>DHYG 4020</td>
<td>Research Methodology</td>
<td>3</td>
<td>Online course covering fundamental and working knowledge of scientific method employed in oral health research. Students will perform critical analysis of research utilizing scientific method and evidence-based publications. <strong>Prerequisite:</strong> Admission to the Dixie State College Bachelor’s of Dental Hygiene program. <em>FA</em></td>
</tr>
<tr>
<td>DHYG 4030</td>
<td>Leadership &amp; Group Dynamics</td>
<td>3</td>
<td>Online course covering focusing on the theories, concepts, and principles of leadership; emphasizes the development of leadership skills related to personal behavior, communication, organization, and self-examination; and explores the opportunity to develop leadership roles appropriate to the dental hygiene profession. <strong>Prerequisite:</strong> Admission to the Dixie State College Bachelor’s of Dental Hygiene program. <em>FA</em></td>
</tr>
<tr>
<td>DHYG 4510</td>
<td>Instruct Design &amp; Measurement</td>
<td>3</td>
<td>Online course introducing basic educational concepts of teaching health care professionals, including educational planning, course development and design, goals and learning objectives, and evaluation and measurement. <strong>Prerequisite:</strong> Admission to the Dixie State College Bachelor’s of Dental Hygiene program. <em>FA, SP</em></td>
</tr>
<tr>
<td>DHYG 4520</td>
<td>Instructional Practice</td>
<td>3</td>
<td>Online course providing students with knowledge and skills involved in laboratory and clinical instruction, while stressing psychomotor skill development, analysis, and remediation of performance problems. Includes lecture and clinical application of knowledge. <strong>Prerequisite:</strong> Admission to the Dixie State College Bachelor’s of Dental Hygiene program. <em>FA, SP</em></td>
</tr>
<tr>
<td>DHYG 4530</td>
<td>Psych. &amp; Philosophical Fdns</td>
<td>3</td>
<td>Online course introducing teaching philosophies and methodologies. Covers foundations of teaching such as principles of learning, learning styles and motivation, case-based learning, and using educational media and software. <strong>Prerequisite:</strong> Admission to the Dixie State College Bachelor’s of Dental Hygiene program. <em>FA, SP</em></td>
</tr>
<tr>
<td>DHYG 4540</td>
<td>Cultural Diversity Care Comp</td>
<td>3</td>
<td>Online course covering the knowledge, skills, and attitudes that are vital for cultural competency. <strong>Prerequisite:</strong> Admission to the Dixie State College Bachelor’s of Dental Hygiene program. <em>FA, SP</em></td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

cultural competency and delivery of cultural care. “Health, Illness, and Healing” are explored across many diverse cultures along with reflection of the student’s own perceptions. Complex issues related to the delivery of health care both on a national level and to populations with unique culture and socialization processes are examined. **Prerequisite:** Admission to the Dixie State College Bachelor’s of Dental Hygiene program. **FA**

**DHYG 4550 Dental Public Health Administ (3)**

Online course covering administrative infrastructure of public health, including profile comparisons of the international, federal, state, and local public health entities. Includes the public health paradigm on the general policies, philosophies, and current public/community health issues, while introducing the process of evaluating community health settings and health care services, as well as social responsibilities regarding professional ethics applicable to the essential public health services, impact of service learning, and disparities in health care. **Prerequisite:** Admission to the Dixie State College Bachelor’s of Dental Hygiene program. **FA**

**DHYG 4560 Community Services Practice (3)**

Online Service Learning course that reviews the roles and responsibilities of the private practice dental hygienist as compared to those expected of the public health dental hygienist by engaging the student in supervised community health activities in oral health assessment needs, and evaluation of current and future oral health interventions (both oral care and disease prevention) from the dental public health perspective. The student will have the opportunity to administer oral health care/prevention in a variety of settings, both in-house and outreach through involvement with community oral health policy development and program planning skills based on evidence-based practices. Requires clinical hours. **Prerequisite:** Admission to the Dixie State College Bachelor’s of Dental Hygiene program. **FA**

**DHYG 4565 Expanded Functions Certificate (2)**

Service Learning clinical/lab course including lab and clinical application of advanced procedures emphasizing pain control methods, restorative expanded functions, and four-handed dentistry, including duties related to amalgam, composite and temporary restorations placement. **Prerequisite:** Admission to the Dixie State College Bachelor’s of Dental Hygiene program. **Not offered 2011 - 2012.**

**DHYG 4570 Senior Project (3)**

Online capstone course provides students with the opportunity to apply knowledge of chosen professional track to develop an action plan and implement it though teaching, internship and observation, or work experience at on and off campus sites in order to develop the expanding role of the dental hygienist. **Prerequisite:** Admission to the Dixie State College Bachelor’s of Dental Hygiene program. **SP, SU**

**ECON 1010 Economics of Social Issues (3)**

Fulfills General Education Social & Behavioral Sciences requirement. Does not fulfill School of Business degree requirements. Offers an introduction to the economic theories of scarcity, consumer and producer choice, competition and monopoly, labor, capital, resource markets, antitrust and other government regulations, and income distribution in order to understand and appreciate the ideas, processes, dynamics, and institutions that underlie the social and economic system. **FA, SP**

**ECON 1740 Economic Hist of the U.S. (3)**

Fulfills the General Education American Institutions (Utah State Code R470) requirement. Surveys the development of economic institutions and process of material growth in 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:** Reading placement score of 17 or higher, or ENGL 1470. **SP**

**ECON 2020 Macro Economics (3)**

Fulfills General Education Social & Behavioral Sciences requirement. Required of students pursuing majors in the School of Business. Offers an introduction to the economic theories of scarcity, supply and demand, the role of government, international trade and finance, inflation, depression, economic growth, and government debt in order to understand and appreciate the ideas, processes, dynamics, and institutions that make the American economy work. **Prerequisite:** ECON 2010. **FA, SP, SU**

**ECON 3500 International Economics (3)**

For students in the School of Business. Covers economic activity that crosses a national border, including the history of and current movement of capital and labor across international borders. Since international transactions are beyond the reach of national laws and policies, international economics must also include an overview of the international institutions practices that regulate the flow of goods, resources, and money between countries. **Prerequisite:** ECON 2020. **FA**

**EDUC 1000 Transition to Teaching (1)**

For Alternative Route to Licensure (ARL) teachers only. This orientation class will assist ARL teachers who have a bachelor’s degree in a content area taught in Utah schools make a successful transition to teaching through the Alternative Route to Licensure program. Course topics include an overview of the ARL program, an overview of the competencies teachers are expected to master in a school setting, and the professional roles and responsibilities of a teacher. **Prerequisites:** Admission to the Dixie State College ARL program; and Instructor permission. **Offered based upon sufficient student need.**

**EDUC 1001 Freshman Seminar in Education (1)**

First Year Experience course recommended for entering freshmen and transfer students with 0-24 credits. Designed to help students adapt to college life and become integrated into Dixie State College. Students will refine academic skills, create and foster social networks, learn about college resources, and explore different fields of study, degree options, and career opportunities in Education. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1026). Students may only take one FYE course for credit. **FA, SP**

**EDUC 1010 Foundations/Intro to Education (3)**

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. **FA, SP, SU**
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EDUC 1800</td>
<td>Education Work Experience</td>
<td>(1 - 3)</td>
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<tr>
<td>EDUC 1810</td>
<td>Education Work Experience</td>
<td>(1 - 3)</td>
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<tr>
<td>EDUC 1820</td>
<td>Education Work Experience</td>
<td>(1 - 3)</td>
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<tr>
<td>EDUC 2010</td>
<td>Intro to Exceptional Learners</td>
<td>(3)</td>
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<tr>
<td>EDUC 2400</td>
<td>Foundations Multicultural/ESL</td>
<td>(3)</td>
</tr>
<tr>
<td>EDUC 2500</td>
<td>Tech/Electronic Portfolios K12</td>
<td>(3)</td>
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<tr>
<td>EDUC 2800</td>
<td>Instruct Tech Assess Plan</td>
<td>(3)</td>
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<tr>
<td>EDUC 2820</td>
<td>Creating/Learning Environment</td>
<td>(3)</td>
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<td>EDUC 2840</td>
<td>Literacy Strategies</td>
<td>(3)</td>
</tr>
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<td>EDUC 2860</td>
<td>Learn/Teach Diverse Population</td>
<td>(3)</td>
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<tr>
<td>EDUC 3110</td>
<td>Educational Psychology</td>
<td>(3)</td>
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<tr>
<td>ELED 3100</td>
<td>Curriculum Design Plan Assess</td>
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**EDUC 1800 Education Work Experience**
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. F A, SP, SU

**EDUC 1810 Education Work Experience**
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. F A, SP, SU

**EDUC 1820 Education Work Experience**
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. F A, SP, SU

**EDUC 2010 Intro to Exceptional Learners**
Required pre-course for both the Elementary Education degree and the Secondary Education Teaching (SET) program. Provides an overview of exceptional students and examines the teacher’s role in integrating these students into the K-12 classroom. Identifies characteristics and special needs of students who have physical, emotional, social, mental, or health exceptionalities. In addition, students will learn the basic laws and policies of Special Education and the key characteristics of inclusion and co-teaching. F A, SP, SU

**EDUC 2400 Foundations Multicultural/ESL**
Partially fulfills General Education Global & Cultural Perspectives requirement. Required pre-course for both the Elementary Education degree and the Secondary Education Teaching (SET) program. Teacher candidates will examine a variety of theoretical frameworks associated with multicultural education and current issues affecting diverse students in the educational setting. The course content and assessments will provide teacher candidates with opportunities to discuss and reflect on issues of race, gender, individual differences, and ethnic as well as cultural perspectives. Additionally, a foundation of language acquisition theory and sheltered English techniques will also be introduced to address the needs of English Language Learners. This course also partially fulfills the requirement for ESL Endorsement. F A, SP, SU

**EDUC 2500 Tech/Electronic Portfolios K12**
Required pre-course for both the Elementary Education and the Secondary Education Teaching (SET) programs. Teacher candidates will learn basic computer programs and technology tools that will be used to create productive learning environments in the educational setting. For example, computer programs will address grading software, creating databases, spreadsheets, word processors, e-mail, bulletin boards, internet access, educational websites, and Smartboards. In addition to these technology tools, students will develop an electronic portfolio based on INTASC (New Teachers Assessment and Support Consortium) and NET (National Educational Technology Standards for Teachers). This e-portfolio will enable pre-service teachers to document professional growth in a wide range of knowledge, skills, and dispositions through tangible artifacts and reflections throughout their educational career. F A, SP, SU

**EDUC 2800 Instruct Tech Assess Plan**
For ARL teachers only. ARL teachers will focus on unit plans, developing lesson plans, and unwrapping state core content standards. Teachers will learn to use a variety of instructional strategies to encourage students’ development of critical thinking, problem solving, and performance skills. Formal and informal assessment strategies will be covered to help teachers evaluate and ensure the continuous intellectual, social, and physical development of the learner. Prerequisites: Admission to the Dixie State College ARL program; and Instructor permission. Offered based upon sufficient student need.

**EDUC 2820 Creating/Learning Environment**
For ARL teachers only. ARL candidates will focus on how children learn and develop. They will gain knowledge to provide learning opportunities that support students’ intellectual, social, and personal development. The ARL teacher will discover how to use an understanding of individual and group motivation and behavior to create a learning environment that encourages positive social interaction, active engagement in learning, and self-motivation. Most of the class content will focus on strategies for classroom management. Prerequisites: Admission to the Dixie State College ARL program; and Instructor permission. Offered based upon sufficient student need.

**EDUC 2840 Literacy Strategies**
For ARL teachers only. This course will focus on foundations of reading comprehension of students, and decisions teachers make concerning methods, materials and procedures based on those foundations. ARL teacher candidates will integrate literacy skills (vocabulary, study skills, comprehension development, and writing) within their respective content areas. Prerequisites: Admission to the Dixie State College ARL program; and Instructor permission. Offered based upon sufficient student need.

**EDUC 2860 Learn/Teach Diverse Population**
For ARL teachers only. This course will explore the rationale, concepts, theory and practice of teaching diverse populations from cultural, linguistic and socioeconomic diverse backgrounds in pluralistic schools and societies. ARL teachers will develop skills in delivery, classroom management, motivation, language acquisition, and community and family involvement. Prerequisites: Admission to the Dixie State College ARL program; and Instructor permission. Offered based upon sufficient student need.

**EDUC 3110 Educational Psychology**
Required prerequisite course for both the Elementary Education degree and the Secondary Education Teaching (SET) licensure program. Provides teacher candidates with an overview of the relationship of psychology to teaching and learning. Students will learn about the nature of learning, human brain growth, the impact of brain research, child and adolescent development and how the brain processes information. An emphasis is placed on how teacher candidates can apply the theories and practices of educational psychology into day-to-day teaching practices. Prerequisite: FCS 1500, or PSY 1010, or PSY 1100. F A, SP, SU

**ELED 3100 Curriculum Design Plan Assess**
Required for all Elementary Education students. Teacher candidates will learn how to convert their knowledge of subject matter into effective lessons that meet the needs of a wide range of students. They will learn how to develop lessons that are grounded in a backward design approach. This approach focuses on creating a curriculum design that will help their students develop critical thinking skills and enduring understanding. Teacher candidates will create a mini-teacher work sample that will be implemented in a local elementary classroom during their practicum experiences to provide real experience and evidence of their pedagogical knowledge. Combined lecture/practicum course. Prerequisite: Admission to the Dixie State College Elementary Education Pro-

**ELEMENTARY EDUCATION (ELED)**

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<tr>
<td>ELED 3100</td>
<td>Curriculum Design Plan Assess</td>
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**COURSE DESCRIPTIONS**

**ELED 3150 Principles Early Childhood Ed (2)**
Required for all Elementary Education students. Course will focus on the historical and philosophical foundations of early childhood education as well as the current issues in the field. Principles of effective teaching techniques and approaches to early childhood curricula emphasizing developmentally appropriate practices, constructivism, and integrated child-centered curriculum will be explored. Prerequisite: Admission to the Dixie State College Elementary Education Program. FA, SP

**ELED 3250 Effective Classroom Mgmt (3)**
Required for all Elementary Education students. Course is designed to help the teacher candidate develop skills related to the management and leadership of the elementary classroom. Areas include: discipline, procedures and routines, interpersonal relationships, classroom environment, learner motivation, and parental involvement. Students will design a comprehensive Classroom Management Plan (CMP). Combined lecture/practicum course. Prerequisite: Admission to the Dixie State College Elementary Education Program. FA, SP.

**ELED 3300 Literacy Intermediate Grades (3)**
Required for all Elementary Education students. Course will focus on developing the pedagogical knowledge and skills necessary to provide appropriate literacy instruction for students in the intermediate grades (3-6). The course content will focus on the core areas (i.e., comprehension, content area reading, assessment, intervention) necessary to build strong literacy skills, and differentiation strategies needed for readers with diverse backgrounds. Teacher candidates will practice these pedagogical skills during a field experience in the public schools. Combined lecture/practicum course. Prerequisite: Admission to the DSC Elementary Education Program. FA, SP.

**ELED 3350 Literacy Acquis Young Children (3)**
Required for all Elementary Education students. Course will focus on developing the knowledge and skills necessary to provide developmentally appropriate literacy instruction for emerging readers. The course content will focus on the core areas (literacy development, phonemic awareness, phonics, fluency and word knowledge) necessary to build a strong literacy foundation along with differentiation strategies needed for developing readers with diverse backgrounds. Teacher candidates will develop these pedagogical skills during a field experience in the public schools. Combined lecture/practicum. Prerequisite: Admission to the Dixie State College Elementary Education Program. FA, SP.

**ELED 3410 Lang Acquisition Cognition ESL (3)**
Required for all Elementary Education students. This course partially fulfills the requirement for ESL Endorsement. This course is designed to prepare teacher candidates to become professional teachers who understand the theory of second language acquisition in order to provide linguistically and culturally appropriate instruction as well as, learning opportunities for ESL students in elementary schools. Teacher candidates will also develop awareness of the different sources that lead to cultural bias in instructional techniques and materials. Teacher candidates will also develop ways to reduce these other forms of bias. Pedagogical knowledge will be gained through practicum experiences in local elementary schools. Combined lecture/practicum. Prerequisite: Admission to the Dixie State College Elementary Education Program. FA, SP.

**ELED 3420 Assessment for ESL Education (3)**
Required for all Elementary Education students. This course partially fulfills the requirement for ESL Endorsement. This course is designed to further develop competencies in current assessment practices in both ESL and mainstream education. Teacher candidates will learn about implementing assessment and making them useful, meaningful and equitable. Teacher candidates will have the opportunity to explore and evaluate the relationship between teaching and assessment. Pedagogical knowledge will be gained through practicum experiences in local elementary schools. Combined lecture/practicum. Prerequisite: Admission to the Dixie State College Elementary Education Program. FA, SP.

**ELED 3500 Methods Healthy Lifestyle/PE (3)**
Required for all Elementary Education students. This course develops the knowledge, skills and dispositions necessary to teach healthy lifestyles and physical education to elementary-ages children. The purpose of the course is to enable prospective teachers to plan, implement and evaluate lessons that address healthy lifestyles and physical education objectives of the curriculum for elementary students. Students will practice their skills in a practicum in the public schools. Combined lecture / practicum. Prerequisite: Admission to the Dixie State College Elementary Education program. FA, SP.

**ELED 3550 Curriculum Early Childhood Ed (3)**
Required for all Elementary Education students. Course will focus on the development of the curriculum philosophies, presentation skills, and resource development aligned with state and national standards. Teacher candidates will practice applying their learning during a field experience. Combined lecture / practicum. Prerequisite: Admission to the Dixie State College Elementary Education program. FA, SP.

**ELED 3650 Assessment of Young Children (2)**
Required for all Elementary Education students. This course will focus on developing the skills and knowledge for accurately and appropriately assessing the learning and abilities of young children. Both formal and informal assessment strategies and data collection procedures for evaluating children’s progress will be presented. Teacher candidates will learn how to use assessment to plan more appropriate instruction for young learners. Prerequisite: Admission to the Dixie State College Elementary Education program. FA, SP.

**ELED 3900 Diff Instruct ExceptionalChild (3)**
Required for all Elementary Education students. Students will learn about teaching exceptional students, working with parents and specialists, and providing appropriate instructional experiences for children across the academic continuum. They will explore the methods, strategies, and materials that are necessary to provide differentiated instruction for their students. Students will practice applying this knowledge in a practicum setting. Combined lecture/practicum. Prerequisite: Admission to the Dixie State College Elementary Education program. FA, SP.

**ELED 4100 Methods Teaching Elem Math (3)**
Required for all Elementary Education students. Teacher candidates will learn and gain an understanding of elementary mathematical concepts, curriculum, and standards at the local, state and national (NCTM) levels. This course will also include the pedagogical knowledge of teaching elementary mathematics. Teacher candidates will have an opportunity to demonstrate their understanding of the course through a variety of assessments and transfer this knowledge, disposition, and teaching skills to real-life practicum experiences in a local elementary classroom. Combined lecture / practicum. Prerequisite: Admission to Dixie State College Elementary Education program. FA, SP.

**ELED 4200 Fine Arts in Elementary (2)**
Required for all Elementary Education students. This course explores ways in which the fine arts can be used as a vehicle for exploring instruction and learning. Visual arts and music are the focus of this course. The examination of art and performance of music are key ways by which the content is taught. Class prepares teacher candidates to apply the state core curriculum in elementary settings, and to use fine arts as an instructional tool to enhance learning. Prerequisite: Admission to Dixie State College Elementary Education program. FA, SP.

**ELED 4300 Methods Teaching Elem Science (3)**
Required for all Elementary Education students. Teacher candidates will develop effective instructional methods and assessments based on required K-6th science education standards and curriculum, and state curriculum goals. Lecture, seminar discussion, hands-on experiences, and practicum in local schools are the modes of instruction. Combined lecture / practicum. Prerequisite: Admission to the Dixie State College Elementary
ELED 4400  Methods Teach Elem Social Sci  (3)
Required for all Elementary Education students. Methods and strategies for effective instruction in the social studies at the elementary level. This course examines the national standards (NCSS) as well as, state core curriculum needed to develop the knowledge, skills and attitudes related to teaching social studies in the elementary school. Lecture, seminar discussion, hands-on experiences and field experiences in local schools are the modes of instruction. Combined lecture / practicum. Prerequisite: Admission to the Dixie State College Elementary Education program. FA, SP

ELED 4410  Methods Strategy Lang Arts ESL  (3)
Required for all Elementary Education students. This course partially fulfills the requirement for ESL Endorsement. This course provides methods and strategies for ESL students in elementary schools. Course content includes teaching oral language, literacy skills, and content areas through the integration of culture and language. Teacher candidates will have an opportunity to demonstrate their knowledge by developing a lesson plan that reflects the needs of ESL Students through appropriate adaptation of techniques and strategies. Pedagogical knowledge will be gained through practicum experiences in local elementary schools. Combined lecture / practicum. Prerequisite: Admission to the Dixie State College Elementary Education program. FA, SP

ELED 4430  Family/Parent Involvement ESL  (2)
Required for all Elementary Education students. This course partially fulfills the requirement for ESL Endorsement. This course provides teacher candidates with information regarding the role of parents in the public schools and ways to involve parents more fully in their children’s learning. Particular emphasis is placed on the challenges and needs of parents of ESL children. Resources to support all parents are explored. Instructional activities may include such things as lecture, small group work, guest speakers, projects, etc. Prerequisite: Admission to the Dixie State College Elementary Education program. FA, SP

ELED 4440  Integrating Language & Content  (3)
Required for all Elementary Education students. This course partially fulfills the requirement for ESL Endorsement. This course provides teacher candidates with an understanding of both the English Language Arts (ELA) curriculum and the English Language Learners (ELL) instruction. Course content includes teaching oral language, literacy skills, and content areas through the integration of culture and language. Teacher candidates will have an opportunity to develop lesson plans that reflect the needs of ESL Students through appropriate adaptation of techniques and strategies. Pedagogical knowledge will be gained through practicum experiences in local elementary schools. Combined lecture / practicum. Prerequisite: Admission to the Dixie State College Elementary Education program. FA, SP

ELED 4600  Methods/Teach Elem Lang Arts  (2)
Required for all Elementary Education students. Teacher candidates will learn and gain an understanding of elementary language arts concepts, curriculum, and standards at the local, state, and national levels. This course will emphasize pedagogical knowledge of elementary language arts including research-based instruction and assessment strategies in teaching spelling, writing, penmanship, and grammar. Teacher candidates will demonstrate their understanding through a variety of assessments and transfer their knowledge, dispositions, and teaching skills to experiences in local schools. Prerequisite: Admission to the Dixie State College Elementary Education program. FA, SP

ELED 4900  Student Teaching  (9)
Required for all Elementary Education students. Ten weeks of student teaching experience in the elementary grade levels. Cooperating (mentor) teachers support students as they are given responsibility of all aspects of learning in classrooms. College supervisors, in conjunction with mentor teachers, scaffold this experience via frequent conferences and observations. At the conclusion of student teaching, teacher candidates will have demonstrated their abilities to successfully manage their own classrooms and are eligible for state licensure. Prerequisite: Admission to the Dixie State College Elementary Education program. Corequisite: ELED 4989. FA, SP

ELED 4950  Internship Teaching I  (3)
First semester of a full year of internship teaching after being hired by a public school in cooperation with Dixie State College Education department. Cooperating mentor teachers train and support interns as they are given responsibility of all aspects of learning in the classroom. College faculty, in conjunction with mentor teachers, scaffold this experience via frequent conferences. Interns are also supported by the school district in new teacher induction training. At the conclusion of the internship, the student is eligible for State licensure in teaching. Prerequisite: Instructor permission. FA, SP

ELED 4960  Internship Teaching II  (3)
Second semester of a full year of internship teaching after being hired by a public school in cooperation with Dixie State College Education department. Cooperating mentor teachers train and support interns as they are given responsibility of all aspects of learning in the classroom. College faculty, in conjunction with mentor teachers, scaffold this experience via frequent conferences. Interns are also supported by the school district in new teacher induction training. At the conclusion of the internship, the student is eligible for State licensure in teaching. Prerequisite: Instructor permission. FA, SP

ELED 4989  Capstone  (1)
Required for all Elementary Education students. Teacher candidates debrief and collaborate about special topics such as classroom management, lesson design, assessment, and instructional strategies. The purpose of the capstone course is to solidify the pre-service experiences, present the professional e-portfolio and teacher work sample in its entirety and to develop the skills and knowledge necessary to find a teaching position. Prerequisite: Admission to the Dixie State College Elementary Education program. Corequisite: ELED 4900. FA, SP

EMS 1100  EMT Basic  (8)
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-B certification. Course fee required. FA, SP

EMS 1200  EMT Intermediate  (4)
Open to students who have an EMT-B Certificate to continue their training in the areas of extended patient assessment, intravenous initiation and therapy, medical and legal consideration, advanced shock, pediatric vascular access, management of selected drugs, EKG management and recognition, and oral intubation. Course fee required. Prerequisite: Instructor permission. SP, SU

EMS 2200  Paramedic Training I  (7.5)
First semester course. Open to students who have had the EMT-B certificate for at least 1 year. The first of 5 paramedic courses which includes lecture, laboratory, and clinical training in topics such as EMS communications, wellbeing of the paramedic, medical and legal responsibilities, pharmacology, pathophysiology, history-taking, advanced ventilatory management, bag valve mask, mouth to mask, mouth to mouth/nose, ET insertion, EOA insertion, NPA insertion, OPA insertion, suctioning, manual maneuvers, IV therapy/sterile techniques, IV medications and their administration, and patient assessment. Course fee required. Prerequisite: Admission to the Dixie State College Paramedic Certificate program. FA

EMS 2300  Paramedic Training II  (7.5)
First semester course. Open to students who have had the EMT-B certificate for at least 1 year. The first of 5 paramedic courses which includes lecture, labora-
Admission to the Dixie State College Paramedic Certificate program. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

ENG 820 Engineering Work Experience (1-3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

ENGR 1820 Engineering Work Experience (1 - 3)
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ENGR 2010 Statics (3)
For pre-Engineering students. Covers the equilibrium of bodies, that is, those that are either at rest or move with a constant velocity. Covers properties of vectors as they apply to force systems, including trusses, frames, and machines. Applications of friction and forces in beams. Prerequisites: MATH 1220 (can be concurrently enrolled), and MATH 1210. SP

ENGR 2030 Dynamics (3)
For pre-Engineering students. Covers the kinematics of a particle in both rectilinear and curvilinear motion, as well as application of Newton's laws of motion to the kinetics of particles in detail for several types of motion. Force and acceleration, and energy and momentum are used as methods for solving dynamic problems. Planar kinematics and kinetics of rigid bodies are covered. Prerequisite: ENGR 2010. FA

ENGR 2140 Strength of Materials (3)
For pre-Engineering students. Introduces the internal effects (stress, strain, elastic and inelastic behavior, shear and bending movement) of loads (axial, torsion, and bending) on engineering systems. Prerequisite: ENGR 2010. SP

ENGR 2250 Electrical Circuits (3)
For pre-Engineering students. Presents basic concepts of electric circuit theory, including voltage, current, power, resistance, capacitance, and inductance. Covers circuit analysis techniques, including Kirchhoff's Laws, node voltages, and mesh currents for direct and alternating current. Circuits discussed include first and second order inductive and capacitive circuits (RC, RL, RLC). Operational amplifiers are introduced into circuit analysis. Phasers are used in conjunction with AC circuits. Prerequisites: MATH 2280 (can be concurrently enrolled), and MATH 1220. SP

ENGR 2255 Electrical Circuits Lab (1)
Introductory lab course for pre-Engineering students. Discusses electrical circuit measurements and analysis methods. Through several laboratories students are introduced to instrumentation important to the understanding of electrical circuit analysis and the safety required with the use of instrumentation. Several different circuits will be analyzed including LC and RC circuits, resistive networks, operational amplifiers, and AC circuits. Includes basic circuit design and analysis techniques using circuit analysis software. Prerequisites: MATH 2280 and MATH 2270. SP

ENGR 2300 Engineering Thermodynamics (3)
For pre-Engineering students. Covers fundamentals of thermal energy and work, thermodynamic properties of fluids and equations of state, open and closed systems, first and second laws of thermodynamics, and applications to thermal and mechanical processes. Prerequisites: MATH 2210 (can be concurrently enrolled), and MATH 1220. FA
ENGLISH (ENGL)

ENGL 0470 Basic Reading (3)
Required for students with Reading placement scores of 12 or below. Designed to assist students in the development of reading skills that will enhance their opportunities for success in college, at work, and in life in general. The focus of instruction is on vocabulary development, comprehension, and reading speed. The course will combine group, semi-independent, and individualized instruction in an effort to meet the needs of each student. At the conclusion of instruction, students will be expected to read at a minimum of 175 words per minute with 70% or better comprehension, and consistently read introductory level college materials with at least 80% comprehension. After successfully completing this course, students are strongly advised to enroll in ENGL 1470, Critical Reading. FA, SP, SU

ENGL 0990 Beginning Writing (3)
Required for students with English placement scores of 18 or lower. This course teaches the basics of paragraph and essay organization and development, as well as critical thinking, while preparing students to enter English 1010. Assignments, activities and tests relate to writing and critical reading skills. Successful students will be able to write structured, developed and coherent paragraphs and essays which are relatively free of mechanical errors. They will also edit and proofread their work, as well as analyze the work of others in small and large groups. A grade of C or higher prepares students to enter ENGL 1010. Co-enrollment in ENGL 0995 is required for students with placement scores of 15 or lower, and recommended for other students. FA, SP, SU

ENGL 0995 Beg Writing Lab (1)
Required for students with placement scores of 15 or lower, and recommended for other ENGL 0990 students. A lab course focused on grammar and punctuation to be taken concurrently with ENGL 0990. Lab fee required. Corequisite: ENGL 0990. FA, SP, SU

ENGL 1001 First Year Seminar: English (1)
First Year Experience course designed for freshmen majoring in English or other humanities disciplines, such as English education, literary studies, professional/technical writing, foreign language, and philosophy, this class will also help undecided humanities majors choose a field of study. The course will help students adapt to college life and become integrated into Dixie State College. Students will refine academic skills; create and foster social networks; learn about the college resources; and explore degree options, current job opportunities, and various career paths. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1026). Students may only take one FYE course for credit. FA

ENGL 1010 Introduction to Writing (3)
Partially fulfills General Education English requirement. 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. Prerequisites: LIB 1010 (can be taken concurrently); AND English placement score 19 or higher OR ENGL 0990 (Grade C or higher and if ENGL 0995 required, Grade C or higher); AND Reading placement score 17 or higher OR ENGL 1470 (Grade C or higher). FA, SP, SU

ENGL 1410 Elements of Grammar (3)
Required of all English majors and recommended for other students interested in improving their knowledge of basic English grammar. Engages students in the study of English grammar to facilitate writing, editing, and an understanding of the relationship between language, formal rules, and meaning. Focuses on the study of sentence structure, the terminology and definitions of traditional grammar, and the conventions of usage and punctuation. Students will analyze written examples, diagram sentences, edit written work, and practice constructing original sentences according to the principles outlined. FA, SP

ENGL 1470 Critical Reading (3)
For students wanting to improve their reading skills and further enhance their opportunities for success in college. Focus of instruction is higher-level comprehension with minor emphasis on vocabulary development and reading speed. This is a lecture/lab course with both group and independent instructional activities required. Upon completion of the course, successful students will be able to apply critical and analytical reading skills to comprehend and evaluate sophisticated and complex reading materials. Prerequisite: Reading placement score 12 or higher; or ENGL 0470 with a grade of C or higher. FA, SP, SU

ENGL 1800 English Work Experience (1 - 3)
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ENGL 1810 English Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

ENGL 1820 English Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SU

ENGL 2010 Interm Writing Selected Topics (3)
Partially fulfills General Education English requirement. 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 (Grade C or higher); AND LIB 1010 (can be concurrently enrolled). FA, SP, SU

ENGL 2100 Technical Writing (3)
Required for English majors pursuing an emphasis in Professional & Technical Writing, and open to students in science and technical disciplines who would like to increase their proficiency in writing. Provides students with opportunities to develop skills useful in professional, workplace settings. The course introduces students to technical formats, brevity and clarity strategies, and visual elements such as headings, lists and graphics. Prerequisite: ENGL 1010 (Grade C or higher). FA, SU

ENGL 2130 Intro to Sci Fiction & Futurism (3)
Fulfills a General Education Humanities requirement. For all students with
an interest in the literature of science fiction and futurism. Sharpens students’ literary skills, enhances self-knowledge, and increases understanding of the literature of the genre. Helps students to see how science and technology have shaped the modern world and how they may transform the future. The course covers classic and contemporary science fiction novels and uses class discussions and guest lecturers. SP

**ENGL 2140 Creative Writing (3)**

For all students with an interest in developing expressive skills through the writing of poetry, short stories, or dramatic presentations on stage and film; required for English majors pursuing an English Education emphasis. Increases students’ understanding of literature, other people, and their own ideas and feelings. Successful students will master material which includes figurative language, alliteration, assonance, rhythm in poetry and prose, dialogue, plot, setting, theme, and the critical vocabulary of the genres mentioned above. Repeatable up to 6 credits subject to graduation restrictions. FA, SP, SU

**ENGL 2200 Introduction to Literature (3)**

Fulfills a General Education Humanities requirement. 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. FA, SP, SU

**ENGL 2230 Introduction to Mythology (3)**

Fulfills a General Education Humanities requirement. For all students with an interest in the myths of the Greeks, Romans, Vikings, Slavs, and Celts. Provides a brief look at the historical backgrounds of the above peoples and their myths and some of the ways in which myths have been used in literature from Homer to contemporary fantasy and science fiction. FA

**ENGL 2270 Intro to World Literature I (3)**

Fulfills General Education Literature/Humanities requirement and partially fulfills General Education Global & Cultural Perspectives requirement. For all students with an interest in improving their enjoyment of world literature. Introduces representative masterpieces from ancient, medieval, and Renaissance literature. Surveys a variety of literary masterpieces from all over the world, including ancient Egypt, ancient Greece, India, China, and Japan. Engages students with common practices in reading, interpreting, and writing about literature, and addresses questions of literary form and genre, the relationship between literary works and the cultures that produce them, and how and why we read. FA, SP

**ENGL 2280 Intro to World Literature II (3)**

Fulfills General Education Literature/Humanities requirement and partially fulfills General Education Global & Cultural Perspectives requirement. For all students with an interest in improving their enjoyment of world literature. Introduces representative literary masterpieces from the eighteenth century to the present. Students will survey a variety of literature from writers around the globe. Engages students with common practices in reading, interpreting, and writing about literature, and addresses questions of literary form and genre, the relationship between literary works and the cultures that produce them, and how and why we read. FA, SP

**ENGL 2330 Children’s Literature (3)**

Fulfills a General Education Humanities requirement. For students who love children and reading or who have an interest in elementary education, child development, or parenthood. Teaches the historical development of children’s literature; examines literary elements, such as characterization, plot, and style; focuses on a broad spectrum of literary genres in children’s literature, such as realistic fiction, picture books, poetry, and informational books; and acquaints students with major authors and illustrators of children’s literature, past and present. Students will create a file of all books and stories read in addition to tests, quizzes, and papers on textbook readings. FA, SP

**ENGL 2400 Intro to American Literature I (3)**

Fulfills a General Education Humanities requirement. This course will introduce students to some of the major writers and works in American literature from the Colonial Period to the American Renaissance. Students will survey a variety of literature, from the sermons and poetry of the early Puritans to the seminal essays, poetry and fiction of the American Renaissance. Engages students with common practices in reading, interpreting, and writing about literature, and it will address questions of literary form and genre, the relationship between literary works and the cultures that produce them, and how and why we read. FA

**ENGL 2410 Intro American Literature II (3)**

Fulfills a General Education Humanities requirement. This course will introduce students to some of the major writers and works in American literature from the Civil War to the present. Students will survey a variety of literature, from the novels and short stories of the realists, to the influential works of the modernists, to the postmodernists and other contemporary writers. Engages students with common practices in reading, interpreting, and writing about literature, and it will address questions of literary form and genre, the relationship between literary works and the cultures that produce them, and how and why we read. SP, SU

**ENGL 2500 Intro to British Literature I (3)**

Fulfills a General Education Humanities requirement. This course will introduce students to some of the major writers of the British Isles through careful study of a variety of literary works from the Anglo-Saxon period through the 18th century. Engages students with common practices in reading, interpreting and writing about literature, and it will address questions of literary form and genre, the relationship between literary works and the cultures that produce them, and how and why we read. FA, SU

**ENGL 2510 Intro to British Literature II (3)**

Fulfills a General Education Humanities requirement. This course will introduce students to some of the major writers of the British Isles through careful study of a variety of literary works from the Romantic period to the present. Engages students with common practices in reading, interpreting and writing about literature, and it will address questions of literary form and genre, the relationship between literary works and the cultures that produce them, and how and why we read. SP

**ENGL 2600 Critical Introduction to Literature (3)**

Fulfills a General Education Humanities requirement. Required of all English majors. Introduces literary appreciation, and teaches criticism and terminology as applied to various types of literature, including fiction, poetry, and drama. Requires critical analysis of prose, poetry, and drama. Acquaints students with basic literary terminology, provides a brief survey of pertinent literary theories, and surveys pivotal critical texts. Students respond to texts to understand how meaning is created through transactions among writings, readers and cultures. FA, SP, SU

**ENGL 2790 Writing Center Tutoring I (2)**

Required for tutors in the College’s Writing Center, and open to students interested in learning how to tutor writing for either personal satisfaction or professional needs. Covers a variety of writing specific topics, such as grammar, organization, rhetorical invention, revision strategies, and the writing process in general. Also covers principles of tutoring, including using the Socratic method of teaching, tutoring to various learning styles, and dealing with writer’s anxiety, as well as the use of computers while tutoring. Successful completers will be able to diagnose writing problems, provide instruction, and interpret course assignments. FA, SP

**ENGL 2791 Writing Center Tutoring II (1)**

Required for tutors in the College’s Writing Center, and open to students interested in learning how to tutor writing for either personal satisfaction or professional needs. This course will cover a variety of writing specific topics like grammar, organization, rhetorical invention, revision strategies, and the writing process in general. Covers principles of tutoring such as using the Socratic method.
method of teaching, tutoring to various learning styles, dealing with writer’s anxiety, and mentoring other tutors, as well as the use of computers while tutoring. Successful completers will be able to diagnose writing problems, provide instruction and practice, and interpret course assignments. Repeatable up to 6 credits subject to graduation restrictions. **Prerequisite:** ENGL 2790. *Fa, Sp*

**ENGL 2890 Journal Pub/Southern Quill (1 - 3)**

For students in all disciplines who wish to work with the “Southern Quill,” Dixie College’s literary magazine, and who want to pursue projects in creative writing such as poetry, short stories, plays, and essays. Students must attend weekly “Southern Quill” meetings and produce works in the genre(s) of their choice. Variable credit: 1.0 – 3.0. Repeatable up to 9 credits subject to graduation restrictions. **Prerequisite:** Instructor Permission. *Fa, Sp*

**ENGL 3010 Writing in the Professions (3)**

Designed for majors in the School of Business, successful students will be able to effectively recognize and model diverse professional writing styles by analyzing various business audiences, writing purposes, and documents (including extensive formal research reports) based on business communication theory and through practical application. Students will also learn about matters of business ethics, international business, and the Internet’s impact on business communication. **Prerequisite:** ENGL 2010; and Advanced Standing. *Fa, Sp, Su*

**ENGL 3030 Advanced College Writing (3)**

Required of all English majors, and recommended for other students who wish to expand and deepen their skills in critical reading, critical thinking and integrated analysis within a variety of rhetorical contexts. Students will be asked to write several persuasive, argumentative, and expository essays. Based on rhetorical theory and through practical application, students will be able to effectively recognize and model diverse writing styles by analyzing various audiences, writing purposes, and documents. **Prerequisite:** ENGL 2010 (Grade C or higher). *Fa, Sp, Su*

**ENGL 3120 Document Design (3)**

Required of English majors pursuing an emphasis in Professional & Technical Writing, and open to students who wish to create effective professional documents for the workplace. Successful students will demonstrate competence in all aspects of document design, including (but not limited to) the following: overall organization and layout; usability theory; application and testing; data organization and display; visual rhetoric (the use of color, size and white space); and theories of writer-based and reader-based writing. Also examines existing research on how different readers process information in different ways. Students will write their own technical documents, for both print and online contexts, in order to apply knowledge learned in class. **Prerequisite:** ENGL 2010 (Grade C or higher). *Sp*

**ENGL 3130 Grant and Proposal Writing (3)**

Required of English majors pursuing an emphasis in Professional and Technical Writing, and open to other interested students. Focuses on techniques for writing effective grants and proposals, learning about the processes that lead to successful grant and proposal writing, generating and focusing on an idea, writing in a variety of formats, and providing supporting information. Successful students will demonstrate they understand the qualities of an effective proposal through their critiques of funded and non-funded proposals and by writing a proposal. **Prerequisite:** ENGL 2010 (Grade C or higher). *Fa*

**ENGL 3140 Fiction Writing (3)**

Provides experienced writers with the opportunity to improve their understanding of narrative prose writing techniques and the elements of fiction, including plot, dialogue, characterization, setting and symbolism. In addition to producing original works of fiction, including short stories, novelas and excerpts from novels, students become proficient in examining, assessing, and critiquing published works of fiction by established writers. All creative materials produced by students will receive critiques in class workshops. **Prerequisite:** ENGL 2010 (Grade C or higher). *Sp*

**ENGL 3141 Poetry Writing (3)**

Provides experienced writers with the opportunity to improve their understanding of poetry writing techniques and the elements of poetry, including rhyme, meter, imagery, symbolism and diction. In addition to producing original works of poetry, students become proficient in examining, assessing, and critiquing published works of poetry by established writers. All creative materials produced by students will receive critiques in class workshops. **Prerequisite:** ENGL 2010 (Grade C or higher). *Sp*

**ENGL 3180 Writing for Interactive Media (3)**

Required of English majors pursuing an emphasis in Professional & Technical Writing, and open to other interested students. Explores writing and editing for radio, video, Web sites, and CD-ROMs. Focuses on audience and media, as well as the process of adapting media for writing. **Prerequisite:** ENGL 2010 (Grade C or higher). *Sp*

**ENGL 3201 Genre Studies: Folklore (3)**

Provides an understanding of folklore as a genre, as well as folk themes and motifs in other forms of literature. Focuses on folklore in novels and stories and on folk narratives themselves. Designed to introduce methods and practices of folklore field research and folklore criticism. Also designed to expand the student’s critical reading and writing skills. **Prerequisite:** ENGL 2010 (Grade C or higher). *Offered in rotation; consult class schedule.*

**ENGL 3202 Genre Studies: Poetry (3)**

Explores writing and editing for radio, video, Web sites, and CD-ROMs. Focuses on audience and media, as well as the process of adapting media for writing. **Prerequisite:** ENGL 2010 (Grade C or higher). *Offered in rotation; consult class schedule.*

**ENGL 3203 Genre Studies: Novels (3)**

Explores writing and editing for radio, video, Web sites, and CD-ROMs. Focuses on audience and media, as well as the process of adapting media for writing. **Prerequisite:** ENGL 2010 (Grade C or higher). *Offered in rotation; consult class schedule.*

**ENGL 3211 Period Studies: Victorian Lit (3)**

Explores writing and editing for radio, video, Web sites, and CD-ROMs. Focuses on audience and media, as well as the process of adapting media for writing. **Prerequisite:** ENGL 2010 (Grade C or higher). *Offered in rotation; consult class schedule.*
ENGL 3212 Period/Topic: Crime Fiction & Film Noir (3)
Fulfills a Period/Topic Studies requirement for English majors pursuing an emphasis in Literary Studies or English Education, and open to other interested students. Students will engage with the work and ideas of major realist writers like Dashiell Hammett, James M. Cain, and Raymond Chandler. Students will analyze cinematic adaptations of these authors’ works, especially those which have been cited by critics as examples of film noir. **Prerequisite:** ENGL 2010 (Grade C or higher). Offered in rotation; consult class schedule.

ENGL 3213 Period/Topic Western Amer Lit (3)
Fulfills a Period/Topic Studies requirement for English majors pursuing an emphasis in Literary Studies or English Education, and open to other interested students. Students will explore significant works of twentieth-century Western American literature. Students will write several critical assignments and conduct a major research project. **Prerequisite:** ENGL 2010 (Grade C or higher). Offered in rotation; consult class schedule.

ENGL 3214 Period/Topic Realism/Modernism (3)
Fulfills a Period/Topic Studies requirement for English majors pursuing an emphasis in Literary Studies or English Education, and open to other interested students. Students will engage with the work and ideas of major realist and/or modernist writers, such as Austen, Eliot, Dickens, Conrad, Woolf, Hemingway, and Faulkner. Students will be expected to read extensive amounts of work, write several critical assignments, conduct a major research project, and take at least two exams. **Prerequisite:** ENGL 2010 (Grade C or higher). Offered in rotation; consult class schedule.

ENGL 3220 Multi-Ethnic American Lit (3)
Required of all English majors, and open to other interested students. Examines multi-ethnic literature by American authors and studies the contributions to American literature by African-Americans, Asian-Americans, Latinos, and Native Americans. Focuses on novels, short stories, essays, and poetry that examine the social construction of race in American society, the construction of American identity, and the intersections of race, class, and gender. **Prerequisite:** ENGL 2010 (Grade C or higher). F4

ENGL 3230 Literature and Culture (3)
Required of English majors pursuing an emphasis in Literary Studies, and open to other students curious about the relationship between the literary arts and other cultural forms. This interdisciplinary course exposes students to a broad selection of American literary, cinematic, artistic, and cultural works that investigate the relationship between American culture and literature. Students will be introduced to the ways in which texts and artifacts are closely tied to the geographical and cultural space as well as the historical period in which they emerge. **Prerequisite:** ENGL 2010 (Grade C or higher). F4

ENGL 3260 Major American Authors (3)
Fulfills a Major Authors requirement for English majors pursuing an emphasis in Literary Studies or English Education, and open to other interested students. In depth exploration of the work of a major writer or group of writers. Topics and time periods may vary according to instructor expertise. Emphasizes the dynamic interplay among the aesthetics of the text(s), the authors’ lives, and the socio-political context in which the works are produced. Students will be expected to read extensive amounts of work from these authors, write several critical assignments, and conduct a major research project. **Prerequisite:** ENGL 2010 (Grade C or higher). Offered in rotation; consult class schedule.

ENGL 3261 Major American Women Authors (3)
Fulfills a Major Authors requirement for English majors pursuing an emphasis in Literary Studies or English Education, and open to other interested students. In depth exploration of the work of a major woman writer or group of women writers. Topics and time periods may vary according to instructor expertise. Emphasizes the dynamic interplay among the aesthetics of the text(s), the authors’ lives, and the socio-political context in which the works are produced. Students will be expected to read extensive amounts of work from these authors, write several critical assignments, and conduct a major research project. **Prerequisite:** ENGL 2010 (Grade C or higher). Offered in rotation; consult class schedule.

ENGL 3262 Major African American Writers (3)
Fulfills a Major Authors requirement for English majors pursuing an emphasis in Literary Studies or English Education, and open to other interested students. In depth exploration of the works of a major African American writer or a group of major African American writers. Topics and time periods may vary according to instructor expertise. Emphasizes the dynamic interplay among the aesthetics of the text(s), the authors’ lives, and the socio-political context in which the works are produced. Students will be expected to read extensive amounts of work from these authors, write several critical assignments, and conduct a major research project. **Prerequisite:** ENGL 2010 (Grade C or higher). Offered in rotation; consult class schedule.

ENGL 3271 Major British Authors: Milton (3)
Fulfills a Period/Topic Studies requirement for English majors pursuing an emphasis in Literary Studies or English Education, and open to other interested students. Emphasizes the dynamic interplay among the aesthetics of the text(s), the author’s life, and the socio-political context in which the works are produced. Students will be expected to read extensive amounts of work from these authors, write several critical assignments, and conduct a major research project. **Prerequisite:** ENGL 2010 (Grade C or higher). Offered in rotation; consult class schedule.

ENGL 3274 American Literature since 1945 (3)
Fulfills a Period/Topic Studies requirement for English majors pursuing an emphasis in Literary Studies or English Education, and open to other interested students. Emphasizes the dynamic interplay among the aesthetics of the text(s), the author’s life, and the socio-political context in which the works are produced. Students will be expected to read extensive amounts of work from these authors, write several critical assignments, and conduct a major research project. **Prerequisite:** ENGL 2010 (Grade C or higher). Offered in rotation; consult class schedule.

ENGL 3281 Major World Authors: Postcolonial (3)
Partially fulfills General Education Global & Cultural Perspectives requirement. Fulfills a Major Authors requirement for English majors pursuing an emphasis in Literary Studies or English Education, and open to other interested students. In depth exploration of the works of postcolonial writers. Particular works may vary according to instructor expertise. Emphasizes the dynamic interplay among the aesthetics of the text(s), the authors’ lives, and the socio-political context in which the works were produced. Students will be expected to read extensive amounts of work from these authors, write several critical assignments, and conduct a major research project. **Prerequisite:** ENGL 2010 (Grade C or higher). Offered in rotation; consult class schedule.

ENGL 3340 Rhetoric of Science (3)
Fulfills a requirement for English majors pursuing an emphasis in Professional & Technical Writing, and open to other interested students. Focuses on rhetorical principles that influence writing in scientific professions. Students will study the writings of influential scientists-rhetoricians. Successful completers will demonstrate through theory and application an understanding of these principles through these types of scientific writing: environmental impact statements, the scientific report, and articles from contemporary scientific journals. Students will also examine current controversies in scientific debate. **Prerequisite:** ENGL 2010 (Grade C or higher). SP

ENGL 3341 Writing, Rhetoric, & Pedagogy (3)
Fulfills a requirement for English majors pursuing an emphasis in Professional & Technical Writing, and open to other interested students. Focuses on historical and contemporary connections between rhetoric and composition pedagogies, including emphasis on rhetoricians and theorists in compositional theory from classical to contemporary. Successful completers will be able to describe major trends in rhetoric and composition theory, connect composition theory to originating theorists, and analyze compositions for rhetorical techniques. Students will create a teaching portfolio or compose a conference-ready research paper in composition studies. **Prerequisite:** ENGL 2010 (Grade C or higher). SP
ENGL 3350 Writing Professional Contexts (3)
Fulfills a requirement for English majors pursuing an emphasis in Professional & Technical Writing, and open to other interested students. Introduces the study of written communication in complex human organizations. Relates written communication to values, leadership and power in such organizational contexts as media, business, professional, social, educational, and political groups. Successful completers will be able to understand how writing functions in basic types of organizations, critique the effectiveness of written organizational communication practices, and develop their own writing skills. Prerequisite: ENGL 2010 (Grade C or higher). SP

ENGL 3360 Writing Magazines Trade Jnls (3)
Fulfills a requirement for English majors pursuing an emphasis in Professional & Technical Writing, and open to other interested students. Successful completers will be able to understand the development of the magazine market and the current landscape of magazine publishing: generate ideas, pitch stories, research, report and write articles suitable for publication in a magazine; and initiate and complete the feature or long-form article for magazines or other markets. Prerequisite: ENGL 2010 (Grade C or higher). FA

ENGL 3400 World Literature (3)
Partially fulfills General Education Global & Cultural Perspectives requirement. Required of English majors pursuing an emphasis in Literary Studies or English Education, and open to other interested students. Examines works by major authors in various genres from Asia, the Middle East, the Indian subcontinent, Africa, the Caribbean, Australia, Latin America, and Europe, thus enabling students to appreciate culture and literary traditions beyond those of Britain and the United States. Course topics will vary according to instructor emphasis. Prerequisite: ENGL 2010 (Grade C or higher). FA

ENGL 3510 Shakespeare (3)
Required of English majors pursuing an emphasis in Literary Studies or English Education, and open to other interested students. Students can expect to do close readings of at least six plays and to study such secondary materials as literary criticism, historical background, and film and theatrical representations of the plays. As perhaps the single most important cultural icon in our society, Shakespeare also offers an excellent opportunity to look at the nature of literary reputations, national competitiveness in cultures, and the shifting map of such issues over time. Students will learn to incorporate these materials into their own class discussions and will also produce papers and take exams that reflect their new knowledge. Prerequisite: ENGL 2010 (Grade C or higher). SP

ENGL 3520 Young Adult Literature (3)
Required of English majors pursuing an emphasis in English Education, and open to other interested students. In depth exploration of contemporary adolescent literature, including content, structure, diversity issues, and critical evaluation. Also designed to provide strategies for teaching young adult readers. Prerequisite: ENGL 2010 (Grade C or higher). SP

ENGL 3600 Literary Theory (3)
Required of English majors pursing an emphasis in Literary Studies, and open to other interested students. Covers the major branches of contemporary literary theory. Theoretical perspectives will include structuralism, reader-oriented theory, feminist theory, new historicist and materialist critique, post-colonialist critique, and deconstruction. Topics may also include foundational problems such as canonicity, class, consumerism, gender, ideology, race, sexuality, and textuality. Prerequisites: ENGL 2010 (Grade C or higher); AND ENGL 2600. FA

ENGL 3720 Editing (3)
Required of English majors pursuing an emphasis in Professional and Technical Writing, and open to other interested students. Students learn to work productively with other people’s print and online documents, using specialized vocabulary and such editing tools and proofreaders’ marks, style guides, and standard editorial reference material. Also, students practice how to identify and correct common problems. Includes copy editing, the study of style manuals, and an overview of the production process. Prerequisite: ENGL 2010 (Grade C or higher). FA

ENGL 3810 History & Structure of English Lang (3)
Required of English majors and recommended for other students interested in the ways English has developed over time. Explores the origins and evolution of the English language by focusing on social, political, and linguistic developments over time through the Old, Middle and Early Modern periods and into the present. Prerequisite: ENGL 2010 (Grade C or higher). FA, SP

ENGL 4100 Senior Portfolio (3)
A comprehensive writing capstone course in Aviation Management that asks students to synthesize and reflect on their learning and experiences within the major. Students will construct a compilation of their prior portfolio assignments and build their own employment portfolio. Job search skills, proper interviewing techniques, and resume writing skills will also be covered. Prerequisite: Instructor permission. Not offered 2011-2012.

ENGL 4400 Methods of Teaching Writing (3)
Required of English majors pursing an emphasis in English Education. Students will learn how to design and assess writing assignments. They will also explore different pedagogical strategies and theoretical concepts about writing instruction, including adaptive teaching for diverse learners. Public school practicum required. Prerequisites: English Education major; AND Admission to the Dixie State College Secondary Education Teaching program. FA

ENGL 4450 Methods of Teaching Literature (3)
Required of English majors pursing an emphasis in English Education, and recommended for others interested in teaching literature to young adult learners. Students will learn how to teach a variety of literary genres from diverse writers. They will also explore different pedagogical strategies and theoretical approaches to literature instruction. Prerequisite: ENGL 2010 (Grade C or higher). SP

ENGL 44510 Methods of Teaching Literature (3)
Required of English majors pursing an emphasis in English Education, and recommended for others interested in teaching literature to young adult learners. Students will learn how to teach a variety of literary genres from diverse writers. They will also explore different pedagogical strategies and theoretical approaches to literature instruction. Prerequisite: ENGL 2010 (Grade C or higher). SP

ENGL 4700 Senior Capstone (3)
Required of all English majors. Must be taken in the student’s senior year, preferably during the final semester. Asks students to synthesize and reflect on their learning and experience in the major, allowing them to integrate their study of literature, writing, and theory as well as examine the discipline of English itself. Also, asks students to look forward to careers and/or graduate school, and may include guest speakers, previous English majors, and others who discuss career and graduate school options. Includes a series of culminating assessment projects, including a senior thesis aimed at measuring student outcomes and at assisting the department to improve its program. Prerequisites: English major; AND Senior standing; AND Instructor permission. FA, SP

ENGL 4890 English Internship (1 - 3)
For students who are granted and accept an internship that provides an extensive learning experience in the field of English. Internships offer students the opportunity to work with government, a nonprofit agency, a private agency, an employer, or an instructor. Through arrangements with the department chair, a student may earn up to 3 credits per semester for satisfactory completion of the internship. Students must be supervised by an agency representative and/or a faculty advisor. Written contracts must be completed and signed. Students are also required to submit a written evaluation of their experience before the end of the semester. Approval from chair of English department required before enrolling. Variable Credit: 1.0 – 3.0 Repeatable up to 6 credits subject to graduation restrictions. Prerequisite: Advanced standing; AND Instructor permission. Offered by arrangement.
ESOL 0100 Intro to Academic Communication (3)
Designed to help students prepare for communication in academic settings. This course will introduce listening, speaking, and note-taking strategies and skills in academia. Students will (1) listen to college lectures in authentic lecture settings, and (2) learn vocabulary which students are most likely to encounter in academia, working with the instructor, in small groups, or with technology to practice the skills presented in this course. Prerequisite: COMPASS ESL Placement Test combined score: 0 - 35. Offered based on sufficient student need.

ESOL 0111 English Conversation 1 (3)
Designed to give students a foundation in listening comprehension and conversation. The course will help students learn simple statements, questions, and commands of familiar topics and progress to understanding simple conversational English. In addition, the course will offer all-skills language practice in listening, speaking, reading, writing and pronunciation. Prerequisite: COMPASS ESL Placement Test combined score: 0 - 35. Offered based on sufficient student need.

ESOL 0140 Introduction to Reading in English (3)
Designed to help students who have extremely limited English proficiency gain the foundations related to developing reading skills in English. The course will introduce fundamental vocabulary, word attack skills, dictionary skills, and comprehension skills. Students will be introduced to: (1) both academic and non-academic materials, and (2) strategies for approaching different types of reading. Prerequisite: COMPASS ESL Placement Test combined score: 0 - 35. Offered based on sufficient student need.

ESOL 0150 Intro to Academic Writing (3)
Designed for students who have very limited English proficiency. Introduces the foundations of concepts related to developing writing skills in academic settings, including the skills necessary to develop coherence and fluency in writing by focusing on sentences, responses to readings, vocabulary development, and minimal technical accuracy. Prerequisite: COMPASS ESL Placement Test combined score: 0 - 35. Offered based on sufficient student need.

ESOL 0160 Introduction to English Grammar (3)
Designed for students who have extremely limited English proficiency as indicated by TOEFL scores of 132 or below. It will introduce the foundations of concepts related to developing skills in English usage, correct speech, writing forms and patterns, basic verb tenses and their related structures, and simple use of parts of speech. This course will focus on Standard American English usage and conventions. Prerequisite: COMPASS ESL Placement Test combined score 0 – 35. Offered based upon sufficient student need.

ESOL 0200 Basic Academic Communication (3)
Focuses on a basic foundation in listening comprehension skills in academic settings. By helping students develop a wide range of listening, speaking, and note-taking strategies and skills while listening to college lectures. In addition, the course will introduce students to vocabulary which they are most likely to encounter in academic contexts. Students will work with the instructor, in small groups, or with technology to practice the skills presented in this course. Prerequisite: COMPASS ESL Placement Test combined score: 36 - 56, or ESOL 0100 (Grade B or higher). Offered based on sufficient student need.

ESOL 0211 English Conversation 2 (3)
Designed to give students a basic foundation in listening comprehension and conversation. The course will offer guided conversations, which engage students in meaningful conversations with carefully structured grammar. In addition, the course will offer all-skills language practice in listening, speaking, reading, writing and pronunciation. Prerequisite: COMPASS ESL Placement Test combined score: 36 - 56, or ESOL 0111 (Grade B or higher). Offered based on sufficient student need.

ESOL 0300 Basic Reading in English (3)
Designed to give students the opportunity to develop reading skills in English. Students will study beginning vocabulary, as well as word attack, dictionary, and comprehension skills. Students will read academic and non-academic works and develop strategies for approaching different types of reading. Prerequisite: COMPASS ESL Placement Test combined score: 36 - 56, or ESOL 0140 (Grade B or higher). Offered based on sufficient student need.

ESOL 0350 Basic Academic Writing (3)
Designed to help students gain basic writing skills in academic contexts. It will help students develop coherence and fluency in writing by focusing on short writing assignments, responses to readings, vocabulary development, style and development, and technical accuracy. Prerequisite: COMPASS ESL Placement Test combined score: 36 - 56, or ESOL 0150 (Grade B or higher). Offered based on sufficient student need.

ESOL 0360 Basic English Grammar (3)
Designed to help ESOL students develop basic skills in English usage, correct speech and writing forms and patterns, basic verb tenses and their related structures, and simple use of parts of speech. The course will focus on Standard American English usage and conventions. Prerequisite: COMPASS ESL Placement Test combined score: 36 - 56, or ESOL 0160 (Grade B or higher). Offered based on sufficient student need.

ESOL 0400 Intermediate Academic Comm (3)
Designed to prepare students for the challenges of college lectures with a wide range of listening, speaking, and note-taking strategies and skills. The course will introduce the college lectures drawn from a range of academic disciplines. In addition, the course will ensure that students learn the vocabulary used frequently in academic settings. Students will work with the instructor, in small groups, or with technology to practice the skills presented in this course. Prerequisite: COMPASS ESL Placement Test combined score: 57 - 72, or ESOL 0200 (Grade B or higher). Offered based on sufficient student need.

ESOL 0411 English Conversation 3 (3)
Designed to help students build general English language proficiency and apply these skills for success in daily life, the community, and work. In addition, the course will offer students guided conversations within carefully structured grammatical frameworks and give students opportunities to practice language skills in listening, speaking, writing, reading and pronunciation. Prerequisite: COMPASS ESL Placement Test combined score: 57 - 72, or ESOL 0411 (Grade B or higher). Offered based on sufficient student need.

ESOL 0500 Intermediate Reading in English (3)
Focuses on the continued development of reading skills within academic content areas. Students use a variety of methods and materials to learn intermediate reading strategies and to improve comprehension, expand students’ vocabularies, improve dictionary skills, and increase skills in reading for information. The course will focus on the skills students need to be successful in college-level reading intensive courses as well as the skills needed to read for entertainment and general information. Prerequisite: COMPASS ESL Placement Test combined score: 57 - 72, or ESOL 0300 (Grade B or higher). Offered based on sufficient student need.

ESOL 0550 Intermediate Academic Writing (3)
Designed to help students gain intermediate writing skills in academic contexts, this course will focus on writing well-developed short paragraphs with sentence variety, fluency, intermediate vocabulary, and standard conventions of English. Students will be exposed to the writing process and will be expected to produce pre-writing activities, drafts, revisions, in addition to final drafts of academic writing. Prerequisite: COMPASS ESL Placement Test combined score: 57 - 72, or ESOL 0350 (Grade B or higher). Offered based on sufficient student need.

ESOL 0560 Intermediate English Grammar (3)
**ESOL 0600  Advanced Academic Comm** (3)

Designed to prepare students for the challenges of college lectures with a wide range of listening, speaking, and note-taking strategies and skills. The course will introduce college lectures in a range of academic disciplines. In addition, the course will ensure that students learn the vocabulary used frequently in academic settings. Students will work with the instructor, in small groups, or with technology to practice the skills presented in this course. **Prerequisite:** COMPASS ESL Placement Test combined score 73 - 85, or ESOL 0460 (Grade B or higher). Offered based on sufficient student need.

**ESOL 0611  English Conversation 4** (3)

Designed to help students further develop their interpersonal communication skills in standard American English, this course will offer students guided conversations within carefully structured grammatical frameworks and encourage them to create conversations on their own. In addition, students will practice all-language skills in listening, speaking, reading and writing. **Prerequisite:** COMPASS ESL Placement Test combined score 73 - 85, or ESOL 0411 (Grade B or higher). Offered based on sufficient student need.

**ESOL 0700  Advanced Reading in English** (3)

Designed to help ESOL students develop reading skills which are necessary for more rigorous academic work. Students will work on higher-level vocabulary development skills, dictionary skills, English usage skills, comprehension skills, and study strategies related to reading in the academic content areas. **Prerequisite:** COMPASS ESL Placement Test combined score 73 - 85, or ESOL 0500 (Grade B or higher). Offered based on sufficient student need.

**ESOL 0750  Advanced Academic Writing** (3)

Designed to help students strengthen and enrich writing skills in academic contexts. Students will focus on moving beyond the standard academic paragraphs to the standard academic essays, and be expected to demonstrate fluency and coherency in English with vocabulary which is increasingly more complex and with few technical errors. **Prerequisite:** COMPASS ESL Placement Test combined score 73 - 85, or ESOL 0550 (Grade B or higher). Offered based on sufficient student need.

**ESOL 0760  Advanced English Grammar** (3)

Designed to help ESOL students strengthen and enrich skills in English usage, correct speech and writing forms and patterns, more complicated verb tenses and their related structures, and advanced use of parts of speech. The course will focus on Standard American English usage and conventions. **Prerequisite:** COMPASS ESL Placement Test combined score 73 - 85, or ESOL 0560 (Grade B or higher). Offered based on sufficient student need.

**FCS 1240  Fashion Sewing** (3)

For students interested in learning to use the sewing machine, serger, pressing tools, and other equipment, as well as skills and knowledge for cutting, sewing, and working with fabrics. Techniques of pattern selection, minor fitting and design, adjustments, and fabric identification and selection will be presented. Combined lecture / lab. Course fee required. *FA, SP*

**FCS 1370  Intro to Interior Design** (3)

For all students who have an interest in well-planned, aesthetic interior human environments that contribute to positive human behavior, well-being, and aesthetic satisfaction. Includes a survey of basic design principles and elements as they apply to planning, designing and furnishing human environments. Color principles and selection skills for window treatments, wall and floor coverings, furniture and accessories will be taught by lecture, by guest professionals, and through student completion of design projects. *FA, SP*

**FCS 1500  Human Development Lifespan** (3)

Fulfills General Education Social & Behavioral Sciences requirement. Of particular interest to those interested in education and health. Utilizes theory and current practices in child development as they apply to bi-social, cognitive, and psychosocial development through the lifespan. Lecture-based course with a strong laboratory involvement in the Dixie State College Preschool. Includes guest speakers, observations, and active learning approaches in class. Dual listed with PSY 1100 (students may only take one course for credit). *FA, SP*

**FCS 1800  FCS Work Experience** (1 - 3)

Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. *FA*

**FCS 1810  FCS Work Experience** (1 - 3)

Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. *SP*

**FCS 1820  FCS Work Experience** (1 - 3)

Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. *SP*

**FCS 2240  Intermediate Fashion Sewing** (3)

For students who already have basic skills (use of sewing machine, serger, pressing tools, and other equipment, as well as cutting and sewing skills). Includes application of intermediate level construction techniques with an emphasis on design and alterations skills. Combined lecture / lab. Course fee required. *SP*

**FCS 2400  Family Relationships** (3)

Fulfills General Education Social & Behavioral Sciences requirement. Examines family issues utilizing family theory with a focus on patterns of family de-
Development through the lifespan. Covers major sociological theories as applied to family functioning, including mate selection, identity development, work and finances, conflict resolution, communication, human sexuality, divorce, and marital strengths through interactive lecture, active learning experiences, cooperative learning tasks, and writing for self-discovery. *FA, SP*

**FCS 2410 Self-Protection for Women (2)**

Open to all students interested in learning how to live with more safety in this society. Examines the socialization that makes women more vulnerable to assault and violence, and provides a valuable foundation for self-protection. Strategies for avoiding dangerous situations will be taught as well as actual self-defense techniques. Covers the effects of assault on a person’s psychology and development. Activities include lecture, class discussion, case study, guest lecturer, active learning, and use of audio/visual materials. *Corequisite: FCS 2415. FA, SP*

**FCS 2415 Self-Protection for Women Lab (0)**

Lab to be taken concurrently with FCS 2410. *Corequisite: FCS 2410. FA, SP*

**FCS 2430 Balancing Stress (1)**

For all students. Corequisites and skills to maximize and to manage life stressors. Explores the social, mental, physical, emotional, and spiritual impact of stress on individuals and relationships, as well as coping mechanisms. By emphasizing “the art of turning adversity into adventure,” successful completers will be able to distinguish between stressors and stress and to compile an arsenal of stress management coping skills. *FA, SP*

**FCS 2440 Strengthening Relationships (0.5)**

Based on the work of C. Terry Warner, Ph.D., and following the training format developed by the Arbinger Company of Salt Lake City, provides a format for participants to strengthen relationships and resolve conflicts in families and in the workplace. Explores how to be an influence for good without control, coercion, or manipulation. Not a traditional college course, this experience assists participants to discover and to recover who they really are in their authentic selves. *FA, SP*

**FCS 2500 Child Devel - Birth to Eight (3)**

Designed for early childhood educators, but open to all students. Focuses on the physical, cognitive, and psychosocial development of young children through infancy, toddlerhood, and early childhood, using a combination of lecture, interactive learning processes, and lab experiences to promote student mastery of normal developmental processes through the first eight years of life. *FA, SP*

**FCS 2600 Intro to Early Childhood Educ (2)**

An introductory course designed for preschool educators, but open to all students. Includes historical background, professional issues, theories, and an overview to developmentally appropriate educational practices. *FA, SP*

**FCS 2610 Child Guidance (3)**

Required of students pursuing the associate’s degree in Early Childhood Education, but valuable to parents, prospective parents, and educators. Applies the principles of child guidance and discipline from currently accepted theories by using the DSC Preschool as a laboratory. Combined lecture / lab. *Prerequisite: FCS 1500 (can be concurrently enrolled); or FCS 2500 (can be concurrently enrolled); or PSY 1100 (can be concurrently enrolled). FA, SP*

**FCS 2620 Plan Creative Exp Young Child (3)**

Required of students pursuing the associate’s degree in Early Childhood Education, but valuable to parents, prospective parents, and educators. Explores the value of developmentally appropriate play for young children and how to provide a rich curricular environment for early childhood settings, including planning, preparation, and implementation of activities for early childhood education. Combined lecture / lab. *Prerequisite: FCS 1500 (can be concurrently enrolled); or FCS 2500 (can be concurrently enrolled); or PSY 1100 (can be concurrently enrolled). FA*

**FCS 2640 Partnering With Parents (3)**

Required of students pursuing the associate’s degree in Early Childhood Education, but valuable to all educators. Prepares educators to competently structure the vital collaboration between educational agencies and the home by highlighting the fact that school and the home are intertwined in the support of healthy childhood development. Focuses on the development of attitudes, knowledge and skills that educators bring to strengthen school and home relationships. *Prerequisites: FCS 1500 (can be concurrently enrolled); or FCS 2500 (can be concurrently enrolled); or PSY 1100 (can be concurrently enrolled); AND FCS 2610 (can be concurrently enrolled). SP*

**FCS 2700 EIS Service Coord Eval Assess (1)**

Overview of early intervention and the theory behind the legislation of Part C of the Individuals with Disabilities Education Act (IDEA), including the history of early intervention; program purpose; system development; regulations and oversight; components of state-wide early intervention system; how complaints are resolved; and early intervention yesterday, today, and tomorrow. Also covers the processes of evaluation and assessment as related to Individual Family Service Plan and implementation. *FA*

**FCS 2701 EIS Devel Special Needs Child (1)**

Explores the importance of family partnerships in programming for the special needs child. Topics include understanding the how special needs children can affect family and involving father, siblings, and grandparents; families as partners; cultural awareness; increasing sensitivity in working with culturally diverse families; understanding grief and loss and providing support; service coordination definition and qualifications; models; scenario; conflict management; and grief and learning. *FA*

**FCS 2702 EIS Cognitive Devel Spec Needs (1)**

Overview of principles of cognition and cognitive development in early childhood. Study of atypical cognitive development and adaptive programming for special needs children in the area of cognition. Development of strategies for treatment of atypical development in cognition. *FA*

**FCS 2703 EIS: Health Safety Spec Needs (1)**

Explores child care health and safety issues. Topics include communicable diseases, controlling the spread of disease, nutrition, medication management, promoting infant and toddler emotional well-being, injury prevention, SIDS, Shaken Baby Syndrome, child abuse and neglect, and preventative oral health. *SP*

**FCS 2704 EIS Motor Devel Sensory Integr (1)**

Explores motor development as it pertains to early intervention children. Topics include reflexes, early warning signs of delay, atypical development, pre- and post-natal causes of disability, sensory processing and integration, typical diagnosis positioning, equipment, toys, medical services, and case studies. Development of strategies for treatment in motor needs of the atypically developing child. *SP*

**FCS 2705 EIS Comm Soc/Emotional Devel (1)**

Explores assisting early intervention children with their growth of communication skills. Topics include typical and atypical language development, naturalistic instruction techniques, and language treatment and production strategies. Overview of social emotional development, the importance of healthy attachment and bonding, child temperament, atypical social-emotional development, and strategies for supportive interventions in communication and social-emotional development. *SP*

**FCS 2880 Practicum Early Childhood Educ (2 - 4)**

Required of students pursuing the associate’s degree in Early Childhood Education. Designed to provide on-the-job learning opportunities for prospective teachers of young children through in an early childhood educational setting, including teaching opportunities in the early childhood setting under the su-
FINANCE (FIN)

FIN 1750 Personal Finance (3)
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. FA, SP

FIN 3150 Managerial Finance I (3)
Required of students pursuing majors and emphases in the School of Business. Covers fundamentals necessary to analyze financial statements, identify management problems, determine causes, and make sound decisions, including cash flow; vertical, horizontal, and ratio analyses; break even; and profit volume, as well as tools of financial management, operating leverage, and projections. Prerequisites: ACCT 2020; STAT 2040; Advanced standing; and ECON 1010 or ECON 2020. FA, SP

FIN 3200 Money, Banking, & Credit (3)
Required of students pursuing an emphasis in Finance; open to other interested students in the School of Business. Covers monetary standards, organization and functioning of the credit system and the Federal Reserve System, problems of money, prices, and credit control, while emphasizing recent monetary and banking trends. Prerequisite: FIN 3150 (can be concurrently enrolled). FA

FIN 3500 Financial Negotiations (3)
For students in the School of Business. Designed to teach students to use an integrated process for strategically planning for, conducting, and debriefing individual and group negotiations while assessing the impact of stakeholder positions, interests, and relationships. Prerequisite: FIN 3150. SP

FIN 3750 Introduction to Investments (3)
Required of students pursuing an emphasis in Finance; open to other interested students in the School of Business. Highlights investment markets, transactions, return and risk measures, stock and preferred stock analysis and valuation, bond analysis and valuation, speculation vehicles, mutual funds, real estate investments, and portfolio building and management. Prerequisite: FIN 3150. SP

FIN 4150 Managerial Finance II (3)
Required of students pursuing an emphasis in Finance; open to other interested students in the School of Business. In-depth treatment of capital structure, return and risk measures, stock and preferred stock analysis and valuation, bond analysis and valuation, speculation vehicles, mutual funds, real estate investments, and portfolio building and management. Prerequisite: FIN 3150. SP

FIN 4180 Entrepreneurial Finance (3)
Required of students pursuing an emphasis in Finance; open to other interested students in the School of Business. Explores all aspects of consumer and commercial credit management, including personal/consumer loans, mortgages, and credit cards; commercial credit topics such as business credit, factoring, financial analysis and reporting agencies; management of consumer credit by businesses; and credit issuance and collection policies. Prerequisites: ACCT 2020; AND ENGL 2010; AND FIN 3150. FA

FIN 4300 Real Estate Finance (3)
Required of students pursuing an emphasis in Finance; open to other interested students in the School of Business. Covers mechanisms of real estate financing, sources of funds and financial institutions, governmental agencies, the framework for urban real estate investment decisions by individuals and institutions, the use of financing techniques, leverage, risk analysis and control, and taxation. Prerequisite: FIN 3150. SP

FIN 4380 Financial Modeling & Decisions (3)
Required of students pursuing an emphasis in Finance; open to other interested students in the School of Business. Applies economic theories to solve various problems in financial management and investments using a hands-on approach in building financial spreadsheet models in Microsoft Excel. Prerequisite: FIN 3150. FA

FIN 4400 International Finance (3)
Required of students pursuing an emphasis in Finance; open to other interested students in the School of Business. A study of the international monetary system in its theoretical and institutional setting, the position of an individual business firm in conducting international trade, and procedures in financing international transactions. Prerequisite: FIN 3150. SP

FRENCH (FREN)

FREN 1010 Beginning French I (4)
For beginning students interested in the French language. Native-speakers and students who have acquired proficiency in this language through extended residence, military service, church missions, or other methods may not enroll in this class. Speaking, listening, reading, and writing activities are used to develop communicative skills. Cultural awareness is also a component of this class. 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 or Bachelor of Arts degree. Successful completers are prepared to take FREN 1020. Placement in foreign language classes is at the discretion of the Department Chair. FA

FREN 1020 Beginning French II (4)
For students interested in the French language who have completed FREN 1010 or who have equivalent experience (approximately two years of high school French). Native-speakers and students who have acquired proficiency in this language through extended residence, military service, church missions, or other methods may not enroll in this class. This course partially qualifies students to receive an Associate of Arts or Bachelor of Arts degree. Successful completers are prepared to take FREN 1020. Placement in foreign language classes is at the discretion of the Department Chair. Prerequisite: FREN 1010 or instructor permission. SP

FREN 2010 Intermediate French I (4)
For intermediate-level students who have taken FREN 1020, or for students who have had equivalent experience (four or more years of high school French). Native-speakers and students who have acquired proficiency in this language through extended residence, military service, church missions, or other methods may not enroll in this class. Continued emphasis on communicative competence. Grammatical structures will be reviewed, conversation will be emphasized, and reading and writing will receive increased focus, as well as cultural awareness. A variety of teaching methods are employed, including drills, videos, conversational activities, reading, and lecture. Students using 2010 as an entry level class may receive vertical credits for FREN 1020 upon passing 2020 with a C grade or higher. This course partially qualifies students to receive an Associate of Arts or Bachelor of Arts degree. Successful completers are prepared to take FREN 1020. Placement in foreign language classes is at the discretion of the Department Chair. Prerequisite: FREN 1010 or instructor permission. SP
completers are prepared to take FREN 2020. Placement in foreign language classes is at the discretion of the Department Chair. Prerequisite: FREN 2020 or instructor permission. FA

FREN 2020 Intermediate French II (4)
For intermediate-level students who have taken FREN 2010. Continued emphasis on communicative competence. Grammatical structures will be reviewed, conversation will be emphasized, and reading and writing will receive increased focus, as well as cultural awareness. A variety of teaching methods are employed, including drills, videos, conversational activities, reading, and lecture. Students using 2010 as an entry level class may receive vertical credits for lower level classes upon passing 2010 with a C grade or higher. This course partially qualifies students to receive an Associate of Arts or Bachelor of Arts degree. Placement in foreign language classes is at the discretion of the Department Chair. Prerequisite: FREN 2010 or instructor permission. SP

GEOGRAPHY (GEOG)

GEOG 1000 Physical Geography (3)
Fulfills General Education Physical Science requirement. Survey of the atmosphere and related phenomenon, including the impact of weather on human activities as well as understanding of basic weather principles. GEOG 1005 lab course recommended but not required. Field trips required. Course fee required. SP

GEOG 1005 Physical Geography Lab (1)
Lab portion of GEOG 1000. One field trip required. Lab fee required. Corequisite: GEOG 1000. FA, SP, SU.

GEOG 1020 Introduction to Weather (3)
Fulfills General Education Physical Science requirement. Survey of the atmosphere and related phenomenon, including the impact of weather on human activities as well as understanding of basic weather principles. GEOG 1025 lab course recommended but not required. SP

GEOG 1025 Introduction to Weather Lab (1)
A laboratory course to be taken concurrently with GEOG 1025. Lab fee required. Corequisite: GEOG 1025. 2 lab hours per week. SP

GEOLOGY (GEO)

GEO 1010 Introduction to Geology (3)
Fulfills General Education Physical Science requirement for non-Science majors. General survey of physical Geology, focusing on 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 recommended but not required. Field trip required. Course fee required. FA, SP, SU

GEO 1015 Introduction to Geology Lab (1)
A laboratory course to be taken concurrently with GEO 1010. Lab fee required. 2 lab hours per week. Corequisite: GEO 1015. FA, SP, SU

GEO 1020 Life of the Past (3)
Fulfills General Education Physical Science requirement for non-Science majors. General survey of historical Geology focusing on the relationship between the tectonic history of the Earth, the evolution of life through time, and the histories of the Earth and life and the complex interactions between them. GEO 1025 lab course recommended but not required. One field trip required. Course fee required. SP

GEO 1025 Life of the Past Laboratory (1)
A laboratory course to be taken concurrently with GEO 1020. Lab fee required. Corequisite: GEO 1020. 2 lab hours per week. SP

GEO 1040 Introduction to Dinosaurs (3)
Fulfills General Education Physical Science requirement. Utilizes the popular subject matter of dinosaurs to teach basic principles of geology, biology, physics, chemistry, and astronomy, with some basic math (algebra). Successful completion of this interdisciplinary course contributes to an understanding of science and scientific concepts as well as their applications in a multitude of disciplines. GEO 1045 lab course recommended but not required. One field trip required. Course fee required. FA

GEO 1045 Intro to Dinosaurs Laboratory (1)
A laboratory course to be taken concurrently with GEO 1040. Lab fee required. Corequisite: GEO 1040. 2 lab hours per week. FA

GEO 1050 Geology of the National Parks (3)
Fulfills General Education Physical Science requirement. Investigates the geologic history of the southwest with an emphasis on the geology of the regional national parks, and the history and processes that have shaped them. Corequisite: GEO 1055. FA

GEO 1055 Geology National Parks Lab (1)
Field trip portion of GEO 1050. Two separate weekend field trips to national parks required to observe geologic features and processes, and gain hands-on practice in rock identification. Requires camping and some hiking. Lab fee required. Corequisite: GEO 1050. FA

GEO 1060 Environmental Geology (3)
Fulfills General Education Physical Science requirement for non-Science majors. Emphasizes relationship between human beings and the geologic environment, including geologic hazards, mineral and energy resources, and environmental issues, including causes and impacts of environmental threats. SP

GEO 1080 Introduction to Oceanography (3)
Fulfills General Education Physical Science requirement. Conveys the essential principles of ocean science, including an understanding of the earth's oceans focusing on sea floor topography and composition, plate tectonics, seawater dynamics and chemistry, atmospheric and ocean currents, waves, coastal land forms, and marine life as well as recognition of the close linkage of weather, climate, and humans to the oceans. GEO 1085 lab course recommended but not required. FA

GEO 1085 Intro to Oceanography Lab (1)
A laboratory course to be taken concurrently with GEO 1080. Lab fee required. Corequisite: GEO 1080. 2 lab hours per week. FA

GEO 1110 Physical Geology (3)
Fulfills a General Education Physical Science requirement for students majoring in the Sciences or Engineering, including Civil Engineering, Geology, Range Management, Forestry, etc. Covers the study of the physical features of the earth and the processes that shape those features. Successful completion gives students the background necessary for further study in the sciences. Corequisite: GEO 1115. FA

GEO 1115 Physical Geology LAB (1)
Lab portion of GEO 1110. Field trips required. Lab fee required. Corequisite: GEO 1110. FA

GERMAN (GERM)

GERM 1010 Beginning German I (4)
For beginning students interested in the German language. Native-speakers and students who have acquired proficiency in this language through extended residence, military service, church missions, or other methods may not enroll in this class. Emphasis on listening, speaking, reading, and writing skills will help the student begin to develop communicative competence. Discussion of German culture is also a component of this course. Several teaching methods are employed, including lecture, drill practice, videos, and group work. This course partially qualifies students to receive an Associate of Arts degree or Bachelor of Arts degree. Successful completers are prepared to take GERM 1020. Placement in foreign language classes is at the discretion of the Department Chair.

**GERM 1020  Beginning German II**  
(4)  
For students interested in the German language who have completed GERM 1010 or who have equivalent experience (approximately two years of high school German). Native-speakers and students who have acquired proficiency in this language through extended residence, military service, church missions, or other methods may not enroll in this class. Continued emphasis on developing communicative skills, including speaking, listening, reading, and writing, as well as cultural awareness. Several teaching methods are employed, including lecture, drill practice, videos, and group work. Students using 1020 as an entry level class may receive vertical credits for GERM 1010 upon passing 1020 with a C grade or higher. This course partially qualifies students to receive an Associate of Arts degree or Bachelor of Arts degree. Successful completers are prepared to take GERM 1020. Placement in foreign language classes is at the discretion of the Department Chair. **Prerequisite: GERM 1010 or instructor permission. FA**

**GERM 2010  Intermediate German I**  
(4)  
For intermediate-level students who have taken GERM 1020, or for students who have had equivalent experience (four or more years of high school German). Native-speakers and students who have acquired proficiency in this language through extended residence, military service, church missions, or other methods may not enroll in this class. Continued emphasis on communicative competence. Grammatical structures will be reviewed, conversation will be emphasized, and reading and writing will receive increased focus, as well as cultural awareness. A variety of teaching methods are employed, including role-play and small group activities, discussion of reading materials, and videos. Students using 2010 as an entry level class may receive vertical credits for lower level classes upon passing 2010 with a C grade or higher. This course partially qualifies students to receive an Associate of Arts or Bachelor of Arts degree. Successful completers are prepared to take GERM 2020. Placement in foreign language classes is at the discretion of the Department Chair. **Prerequisite: GERM 1020 or instructor permission. FA**

**GERM 2020  Intermediate German II**  
(4)  
For intermediate-level students who have taken GERM 2010. Continued emphasis on communicative competence. Grammatical structures will be reviewed, conversation will be emphasized, and reading and writing will receive increased focus, as well as cultural awareness. A variety of teaching methods are employed, including drills, videos, conversational activities, reading, and lecture. Students using 2010 as an entry level class may receive vertical credits for lower level classes upon passing 2010 with a C grade or higher. This course partially qualifies students to receive an Associate of Arts or Bachelor of Arts degree. Placement in foreign language classes is at the discretion of the Department Chair. **Prerequisite: GERM 2010 or instructor permission. FA**

**GCOM 1010  Intro to Graphic Comm**  
(3)  
For students interested in the printing industry. Includes theory and hands-on assignments relative to the printing industry, including history, digital file preparation, digital file output, digital camera, offset press, finishing/binding, and screen printing. Based on PrintED competencies; various certificates of completion are available. Course fee required. **Offered based upon sufficient student need.**

**GCOM 1110  Digital File Preparation I**  
(3)  
For students interested in the printing industry. Computer documents are produced using Adobe InDesign. Based on PrintED competencies; various certificates of completion are available. Course fee required. **Offered based upon sufficient student need.**

**GCOM 1120  Digital File Preparation II**  
(3)  
For students interested in the printing industry. Computer documents are produced using QuarkXPress. Based on PrintED competencies; various certificates of completion are available. Course fee required. **Offered based upon sufficient student need.**

**GCOM 1220  Digital Photography / Scanning**  
(3)  
For students interested in the printing industry. Hands-on experiences with digital camera and scanner. Based on PrintED competencies; various certificates of completion are available. **Offered based upon sufficient student need.**

**GCOM 1230  Digital File Output**  
(3)  
For students interested in the printing industry. Covers preflighting documents prior to printing, producing proofs, determining page imposition, and performing computer-to-plate output. Based on PrintED competencies; various certificates of completion are available. **Offered based upon sufficient student need.**

**GCOM 1410  Beginning Offset Press**  
(3)  
For students interested in the printing industry. Covers the concepts and hands-on experience in digital file preparation, printing, press nomenclature, press make ready, for single and multi-color press operation, including problem-solving, and single and multi-color jobs. Based on PrintED competencies; various certificates of completion are available. Course fee required. **Offered based upon sufficient student need.**

**GCOM 1510  Finishing / Binding**  
(3)  
For students interested in the printing industry. Covers finishing and binding tasks for job entry, including paper math, paper cutting, padding, stitching, folding, scoring, slitting, and safety. Based on PrintED competencies; various certificates of completion are available. Course fee required. **Offered based upon sufficient student need.**

**GCOM 1610  Screen Printing**  
(3)  
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. Course fee required. **Offered based upon sufficient student need.**

**GCOM 1800  Graphic Arts Work Experience**  
(1 - 3)  
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. **FA**

**GCOM 1810  Graphic Arts Work Experience**  
(1 - 3)  
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education
COURSE DESCRIPTIONS

HEALTH OCCUPATIONS (HLOC)

HLOC 1000 Medical Terminology (2)

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. FA, SP, SU.

HLOC 1001 Intro to Nursing/Allied Health (1)

A First Year Experience course designed to help entering freshmen and transfer students with 0-24 credits majoring in nursing or allied health adapt to college life and become integrated into Dixie State College. Students will refine academic skills, create and foster social networks, learn about college resources, and explore different fields of study in the health sciences. Students will begin to explore the collaborative relationships necessary for interdisciplinary health care. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1026). Students may only take one FYE course for credit. FA.

HLOC 1010 Intro to Health Professions (2)

Open to all students. Emphasizes U.S. health care system, including health care reform; current political, social and ethical issues; and changes in educational and legal requirements for more than sixty health and health-related professions, including information on salaries, employment opportunities and trends, and various associations. Students will prepare a resume and receive tips on interviewing techniques and job hunting. Successful completion of the course should enable students to better select a career in health care suited to them. FA, SP.

HLOC 1020 Intro to Sports Medicine (3)

Designed for individuals interested in athletic training, physical therapy, orthopedics, coaching, or other physical education or fitness related careers, but open to all students. Includes the basics of sports medicine (prevention of injury, evaluation of injury, and management of injury) and lab component where students have hands-on, field experiences with athletic trainers and therapists. Course fee required. FA, SP.

HLOC 1050 Cardio-Pulmonary Resuscitation (0.5)

Open to all students. CPR training at multiple levels dependent on student need: airway management, adult/child/infant, cardio-pulmonary resuscitation adult/child/infant, and use of pocket masks. Course fee required. Prerequisite: Instructor permission. FA, SP.

HLOC 1060 First Aid (0.5)

Open to all students who have a requirement for or personal interest in basic first aid. Techniques include bleeding control; treatment, stabilization of fractures, sprains, and dislocations; and metabolic and environmental emergencies. Course fee required. Prerequisite: Instructor permission. FA, SP.

HLOC 1800 Health Occup Work Experience (1 - 3)

Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. FA

HLOC 1810 Health Occup Work Experience (1 - 3)

Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. FA

HLOC 1820 Health Occup Work Experience (1 - 3)

Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

HLOC 1821 Health Occup Work Experience (1 - 3)

Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

HLOC 2830 Pre-Hosp Trauma Life Support (1)

For students who hold a current EMT-P and current BLS Healthcare Provider (or equivalent) certifications. Designed by the National Association of EMTs (NAEMT) in cooperation with the Committee on Trauma of the American College of Surgeons, and targeted for the current paramedic to provide knowledge and skills for pre-hospital assessment and care of the trauma patient. Course fee required. Prerequisite: Instructor permission. Offered based upon sufficient student need.

HLOC 2930 Intro to Sports Medicine (2)

Open to all students. Emphasizes U.S. health care system, including health care reform; current political, social and ethical issues; and changes in educational and legal requirements for more than sixty health and health-related professions, including information on salaries, employment opportunities and trends, and various associations. Students will prepare a resume and receive tips on interviewing techniques and job hunting. Successful completion of the course should enable students to better select a career in health care suited to them. FA, SP.

HLOC 3080 Advanced Sports Medicine (3)

Open to all students, and designed to introduce injury recognition, care and rehabilitation of injuries occurring to the active individual for athletic training. Course fee required. Prerequisite: HLOC 1020. FA or SP (Once each academic year; consult class schedule).
HISTORY (HIST)

HIST 1100 Western Civilization I (3)
Fulfills a General Education Social & Behavioral Sciences requirement. Explores the intellectual, social, ethical, religious, and aesthetic processes, institutions and ideas of Western Civilization from pre-history to 1715. Emphasizes reading, discussing, and writing about important texts and art forms of various periods. Successful completers will have developed an understanding of the general intellectual trends and historical contexts of western civilization through the Age of Reason. FA, SP

HIST 1110 Western Civilization II (3)
Fulfills a General Education Social & Behavioral Sciences requirement. Explores the intellectual, social, ethical, religious, and aesthetic processes, institutions and ideas of Western Civilization from 1715 to the present. Emphasizes reading, discussing, and writing about important texts and art forms of various periods. Successful completers will have developed an understanding of the general intellectual trends and historical contexts of western civilization after the Age of Reason. FA, SP

HIST 1700 American Civilization (3)
Fulfills the General Education American Institutions (Utah State Code R470) requirement. 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: Reading placement score 17 or higher, or ENGL 1470. FA, SP, SU

HIST 2700 U.S. History to 1877 (3)
If both HIST 2700 and HIST 2710 are successfully completed, fulfills the General Education American Institutions (Utah State Code R470) requirement. 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: Reading placement score 17 or higher, or ENGL 1470. FA

HIST 2710 U.S. History since 1877 (3)
If both HIST 2700 and HIST 2710 are successfully completed, fulfills the General Education American Institutions (Utah State Code R470) requirement. 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: Reading placement score 17 or higher, or ENGL 1470. SP

HIST 3180 Nineteenth Century Europe (3)
Analyzes transformations in political, economic, and social ideologies of Europe from 1815 to 1914, using primary documents on a variety of ideologies. Includes active class participation and discussion, and much writing in areas agreed upon between instructor and student. Prerequisites: ENGL 1010 AND (HIST 1700 or HIST 2700 or HIST 2710). Offered based on sufficient student need.

HIST 3190 Twentieth Century Europe (3)
Surveys major forces, events and experiences that shaped Europe from 1914 to 2000 and defined its place in the contemporary world. Examines industrialization, nationalism, colonial empires, world wars, Cold War polarization, and the European Union. Prerequisites: ENGL 1010 AND (HIST 1700 or HIST 2700 or HIST 2710). Offered based on sufficient student need.

HIST 3670 Slavery & the American Republic (3)
Partially fulfills General Education Global & Cultural Perspectives requirement. Explores the creation of slavery in North America from European settlement until 1865, and emphasizes the trans-Atlantic slave trade, the creation of hereditary chattel slavery in America, the government and legal mechanisms that allowed this, slave life and culture, and the efforts to abolish the institution before the Civil War. Prerequisites: ENGL 1010; and HIST 1700. FA

HIST 3720 Colonial America (3)
An in-depth exploration of the economic, political, social, and military growth and development of British North America from its founding in 1607 until the Revolutionary War experience of the 1770s. Prerequisites: ENGL 1010; and HIST 1700. Offered upon sufficient student need.

HIST 3730 American Civil War & Reconstruction (3)
Examines America’s greatest crisis from the Mexican War (1846–48) through the abandonment of Reconstruction in 1877, exploring the political, social, economic, and military aspects of the nation’s march to war, the conflagration that preserved the Union and ended slavery, and the efforts to reconstruct a shattered South. The course also investigates how Americans remember the Civil War and Reconstruction. Prerequisites: ENGL 1010; and HIST 1700. Offered based on sufficient student need.

HIST 3740 Emergence of Modern America (3)
A concentrated survey that explores U.S. history from the Gilded Age in the late nineteenth century through the Progressive Era of reform, WWI, the 1920s, the Great Depression and the New Deal, ending with the onset of WWII. Prerequisites: ENGL 1010; and HIST 1700. Offered based on sufficient student need.

HIST 3750 Contemporary America (3)
Covers recent United States history, including domestic and foreign policy since World War II. Emphasizes Cold War, Civil Rights, and the political and social developments of contemporary American. Prerequisite: ENGL 1010 AND (HIST 1700 or HIST 2710). Offered based on sufficient student need.

HIST 3870 History of Utah (3)
Examines the history of Utah from the earliest human inhabitants, through the settlement by European/Americans in the so-called pioneer period, and on to Statehood. The relationship of Utah’s Dixie to Utah’s history is a subtopic throughout the course. Offered in rotation; consult class schedule.

HIST 4400 Introduction to Islam (3)
Introduces students to the history, politics, and culture of Islam in order to increase the understanding of the contemporary dimension of this world religion. Dual listed with POLS 4400 (students may take only one course for credit). Offered upon sufficient student need.

HIST 4490 Nazi Germany and the Holocaust (3)
Examines the events and ideas in Germany and elsewhere that produced the Nazi state, the Second World War, and the Holocaust. Special attention will be given to the political, cultural and economic events that led to the rise of Hitler and to the reasons for racism, bigotry and intolerance, including the controversial issues of Nazi terror, the “blame” for these years of murder and war, and the link between the WWII and the Holocaust. Prerequisite: ENGL 1010 AND (HIST 1700 or HIST 2700 or HIST 2710). Offered based on sufficient student need.

HIST 4730 Society & Culture US 1780-1860 (3)
A topical examination of American cultural and social history between the Revolution and the Civil War, focusing on the growth and development of the
nation’s market economy, slavery and abolition, changes in family life, evolving understandings of democracy and republicanism, and the rise of popular literature, amusements, and religion. Prerequisite: ENGL 1010; and HIST 1700. Offered upon sufficient student need.

HUMANITIES (HUM)

HUM 1001 FYE: Humanities (1)

Designed for freshmen majoring in English or other humanities disciplines, including English, foreign language, and philosophy, this class also helps undecided humanities majors choose a field of study. Assists students to adapt to college life and become integrated into Dixie State College. Students will refine academic skills; create and foster social networks; learn about college resources; and explore degree options, current job opportunities, and various career paths. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1026). Students may only take one FYE course for credit. FA, SP

HUM 1100 Western Civilization I (3)

For all students interested in history. Explores the intellectual, social, ethical, religious, and aesthetic processes, institutions and ideas of Western Civilization from prehistory to 1715. Emphasizes understanding and appreciating 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 in discussing, writing, and reading about the humanities. FA, SP, SU

HUM 1110 Western Civilization II (3)

For all students interested in history. Explores the intellectual, social, ethical, religious, and aesthetic processes, institutions and ideas of Western Civilization from 1715 to present. Emphasizes understanding and appreciating 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 in discussing, writing, and reading about the humanities. Not offered 2011-2012.

HUM 3030 Multicultural Studies (2)

Partially fulfills General Education Global & Cultural Perspectives requirement. Designed for students in the School of Business, this course provides instruction in issues of race, gender, and class, and gives students a theoretical grounding. Uses texts, films, and other media from literature, philosophy, sociology, and ethnology. Students will apply theory to actual case studies from modern professional settings. Prerequisite: Advanced standing. FA, SP, SU

INFORMATION TECHNOLOGY (IT)

IT 1100 Intro to Operating Systems (3)

Required of all Computer Science and Computer 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 a variety of operating systems and software packages. Course fee required. FA, SP

IT 2400 Intro to Networking (3)

Required of all Computer Science and Computer 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. Course fee required. Prerequisite: IT 1100 (Grade C- or higher). FA, SP

IT 3050 Management Information Systems (3)

Designed for students to gain understanding of the application of technology in solving business problems through analysis of the role of information technology in business. Includes organization systems, planning, and decision processes, as well as how information and information technology is used for decision support in organizations and for competitive advantage in both traditional brick-and-mortar business and e-business. Provides hands-on experience in spreadsheet, database, presentation, and Internet software applications in a business context. Prerequisites: CIS 2010; ENGL 1010; MATH 1010 or higher. FA, SP

IT 3100 Systems Design & Admin I (3)

Required of Computer and Information Technology majors and students with an emphasis in Information Technology. Covers system administration topics for managing Internet facing services, including DNS, SMTP, and HTTP. Students will install, configure, and test services in a server environment. Course fee required. Prerequisites: CS 1400 (Grade C- or higher); AND IT 2400 (Grade C- or higher). FA

IT 3110 Systems Design & Admin II (3)

Required of students pursuing an emphasis in Information Technology, and open to Computer & Information Technology and Computer Science students. A continuation of IT 3100, course covers administration topics for managing local network services, including file sharing and user profile sharing in heterogeneous computer networks. Students will install, configure, and test services in a server environment. Course fee required. Prerequisite: IT 3100 (Grade C- or higher). SP

IT 3200 Perl Programming (3)

For Computer & Information Technology and Computer Science students. Covers syntax and common usage of the Perl programming language through program development. Course fee required. Prerequisite: CS 1410 (Grade C- or higher). Offered based on sufficient student need.

IT 3500 Electronic Commerce (3)

Required of students pursuing a Computer & Information Technology degree or an Information Technology emphasis. Also open to other interested students. Covers concepts and principles of electronic commerce from an interdisciplinary approach, including computer sciences, marketing, consumer behavior, finance, economics, and information systems. Specifics include electronic commerce process steps, Internet infrastructure, demographics, marketing and market research, advertising, promotion, strategy development, financing, competitive analysis, technical development, Web site review, launch, and ongoing innovation. Course fee required. FA, SP

IT 3550 Internet & ECommerce Marketing (3)
For students pursuing a Computer & Information Technology degree. Also open to interested students. Covers impact of new technologies and Internet expansion on marketing and advertising information intensive products and services on the Internet, particularly targeting and reaching customers. Course fee required. \( FA, SP \)

**IT 4200 Advanced Web Delivery** (3)

Required of students pursuing an Information Technology emphasis, and open to other interested students. Covers advanced web server configuration, management, and optimization necessary to provide web application delivery environments. Course fee required. **Prerequisites:** IT 3100 (Grade C- or higher); AND VT 1400 (Grade C- or higher). \( FA \)

**IT 4300 Database Design & Management** (3)

Required of students pursuing an Information Technology emphasis. Covers administration of database management systems, logical database design, implementation of database designs, and application development using a DBMS. Students will design, manage, and implement databases and applications that use databases. Course fee required. **Prerequisites:** CS 1400 (Grade C- or higher); AND IT 1100 (Grade C- or higher). \( FA \)

**IT 4400 Network Design & Management** (3)

Required of students pursuing an Information Technology emphasis. Covers the design, management, and monitoring of a network. Hands-on configuration experience of layers 1, 2, and 3 will be given on both LAN and WAN levels. The successful student will be prepared to successfully complete the CCNA exam. Course fee required. **Prerequisite:** IT 2400 (Grade C- or higher). \( SP \)

**IT 4450 Project Management** (3)

For students in the Business Administration with emphasis in Management Information Systems program. Covers the software lifecycle. Students will be required to manage a team of students in the design, development, and testing of software projects. **Prerequisites:** CS 1400; IT 1100; IT 3050; VT 1400. \( SP \)

**IT 4500 Information Security** (3)

Required of students pursuing an Information Technology emphasis. Reviews current security exploits, vulnerabilities, and countermeasures. Covers general security models and architectures, encryption and forensics. Course fee required. **Prerequisites:** CS 1400 (Grade C- or higher); AND IT 3100 (Grade C- or higher). \( SP \)

**IT 4600 Senior Project** (3)

Required of students pursuing an Information Technology emphasis. Students will complete an aggressive information technology project. Course fee required. **Prerequisite:** Senior status. \( SP \)

**INTS 1001 Intro to Integrated Studies** (1)

A First Year Experience course strongly recommended for all entering freshmen and transfer students with 0-24 credits. Provides an orientation to college studies and the college environment for students interested in Integrated Studies and/or a major not currently available. Emphasizing interdisciplinary learning, encourages students to explore themes, issues, and problems in a number of disciplines as a means to developing an integrative, interdisciplinary perspective. Students will refine academic skills, create and foster social networks, learn about college resources, and explore different fields of study, degree options, and career opportunities. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1026). Students may only take one FYE course for credit. \( FA, SP \)

**INTS 3100 Interdisciplinary Studies** (3)

Required of all Integrated Studies majors. Includes methods, practices, and theories of integrated, interdisciplinary study through collaboration on problem-solving projects in which they apply integrative approaches to common themes, ideas, issues, and events in various disciplines while exploring conceptual basis of each of their two emphasis area disciplines. **Prerequisite:** ENGL 1010 (Grade C or higher). \( FA, SP, SU \)

**INTS 3900 Interdisciplinary Topics** (3)

For all interested students. Presents a topic, problem, or theme from multiple disciplinary perspectives. Students experience the advantages and necessity of bringing the knowledge, concepts, theories, and methods of distinct disciplines to bear on understanding complex issues and ideas. Repeatable for credit as topics vary. **Prerequisite:** ENGL 1010 (Grade C or higher). \( FA, SP \)

**INTS 4890 Independent Study** (1 - 3)

Provides opportunities for majors to engage with an interdisciplinary issue or problem of interest. Projects must be proposed by the student, approved by the department chair, and focused on an integrated, interdisciplinary methods and perspectives. All projects will require research and a written product, and students will be expected to meet with the instructor regularly throughout the term. Students may apply no more than 6 credits of Independent Study courses to the Integrated Studies bachelor’s degree. Variable credit: 1.0-3.0. Repeatable up to 6 credits subject to graduation restrictions. **Prerequisites:** INTS 3100; AND Advanced standing. \( FA, SP, SU \)

**INTS 4900 Senior Interdisciplinary Research** (3)

Required of all Integrated Studies majors in their final year. The first in a 2-course sequence providing the culminating experience in the program. Focuses on research methods and scholarly writing as students identify project topics and prepare formal proposals for review and approval. **Prerequisites:** INTS 3100; AND Senior standing. \( FA, SP, SU \)

**INTS 4910 Senior Interdisciplinary Project** (3)

Required of all Integrated Studies majors in their final year. The second in a 2-course sequence providing the culminating experience in the program. Students will select a topic, theme, issue, or problem and relate their two areas of concentration through careful analysis and creative synthesis, producing a major project that exhibits skill in interdisciplinary understanding. **Prerequisite:** INTS 4900. \( FA, SP \)

**JAPANESE (JAPN)**

**JAPN 1010 Beginning Japanese I** (4)

For beginning students interested in the Japanese language. Native-speakers and students who have acquired proficiency in this language through extended residence, military service, church missions, or other methods may not enroll in this class. Emphasis on gaining communicative competence by focusing on the development of speaking and listening comprehension skills. Discussion of Japanese culture is also a component of the course. Several teaching methods
are employed, including lecture, drill practice, conversation exchanges, videos, lab tapes, and group work. This course partially qualifies students to receive an Associate of Arts or Bachelor of Arts degree. Successful completers are prepared to take JAPN 1020. Placement in foreign language classes is at the discretion of the Department Chair. FA

**JAPN 1020 Beginning Japanese II (4)**

For beginning students interested in the Japanese language who have completed JAPN 1010 or who have equivalent experience (approximately two years of high school Japanese). Native-speakers and students who have acquired proficiency in this language through extended residence, military service, church missions, or other methods may not enroll in this class. Continued emphasis on gaining communicative competence by focusing on the development of speaking and listening comprehension skills. Several teaching methods are employed, including lecture, drill practice, conversation exchanges, videos, lab tapes, and group work. Students using 1020 as an entry level class may receive vertical credits for JAPN 1010 upon passing 1020 with a C grade or higher. This course partially qualifies students to receive an Associate of Arts or Bachelor of Arts degree. Successful completers are prepared to take JAPN 2010. Placement in foreign language classes is at the discretion of the Department Chair. Prerequisite: JAPN 1010 or instructor permission. SP

**JAPN 2010 Intermediate Japanese I (4)**

For intermediate-level students who have taken JAPN 1020, or for students who have had equivalent experience (four or more years of high school Japanese). Native-speakers and students who have acquired proficiency in this language through extended residence, military service, church missions, or other methods may not enroll in this class. Continued emphasis on communicative competence. Grammatical structures will be reviewed, conversation will be emphasized, and reading and writing will receive increased focus, as well as cultural awareness. A variety of teaching methods are employed, including drills, videos, conversational activities, reading, and lecture. Students using 2010 as an entry level class may receive vertical credits for lower level classes upon passing 2010 with a C grade or higher. This course partially qualifies students to receive an Associate of Arts or Bachelor of Arts degree. Successful completers are prepared to take JAPN 2020. Placement in foreign language classes is at the discretion of the Department Chair. Prerequisite: JAPN 1020 or instructor permission. FA based on sufficient student need.

**JAPN 2020 Intermediate Japanese II (4)**

For intermediate-level students who have taken JAPN 2010. Continued emphasis on communicative competence. Grammatical structures will be reviewed, conversation will be emphasized, and reading and writing will receive increased focus, as well as cultural awareness. A variety of teaching methods are employed, including drills, videos, conversational activities, reading, and lecture. Students using 2020 as an entry level class may receive vertical credits for lower level classes upon passing 2020 with a C grade or higher. This course partially qualifies students to receive an Associate of Arts or Bachelor of Arts degree. Placement in foreign language classes is at the discretion of the Department Chair. Prerequisite: JAPN 2010 or instructor permission. SP based on sufficient student need

**LIBRARY INFORMATION (LIB)**

**LIB 1010 Information Literacy (1)**

Fulfills general Education Information Literacy requirement by introducing students to college-level research in an online course. Students will learn to determine the extent of information needed; access the needed information effectively and efficiently; evaluate information and its sources critically; incorporate selected information into one’s knowledge base; use information effectively to accomplish a specific purpose; understand the economic, legal, and social issues surrounding the use of information; and access and use information ethically and legally. Competency-based course, graded Pass/Fail. FA, SP, SU

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**MANAGEMENT (MGMT)**

**MGMT 1650 Supervision Management (3)**

For newly appointed working supervisors. 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. Offered as Concurrent Enrollment only.

**MGMT 1800 Management Work Experience (1 - 3)**

Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. FA

**MGMT 1810 Management Work Experience (1 - 3)**

Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

**MGMT 1820 Management Work Experience (1 - 3)**

Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SU

**MGMT 2050 Business Law (3)**

Required of students pursuing School of Business majors; open to other interested students. Surveys legal environment for business majors with an introduction to the legal system, including dispute resolution, property crimes, fundamental principles of tort liability, government regulation of enterprise and individuals, contracts, and sales. FA, SP, SU

**MGMT 2600 Entrepreneurship (3)**

Open to interested students. 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. FA, SP

**MGMT 3200 Small Business Management (3)**

For students pursuing majors in the School of Business. Addresses practical solutions to common problems and decisions facing small business managers, including financing, inventory control, cash flow, personnel management, taxes, and customer service. Prerequisites: ACCT 2010; AND ENGL 2010; AND MGMT 3400. SP

**MGMT 3400 Management & Organizations (3)**

Required of students pursuing School of Business majors; open to other interested students. Surveys management theory and the elements and variables
that influence organizations. Examines the structure and design of organizations and the management tools used in planning, organizing, directing, controlling, leading, and coordinating organizations. Prerequisite: Advanced standing. FA, SP, SU

MGMT 3510 Business Professional Ethics (2)
Fulfills Ethics requirement for students pursuing School of Business majors; open to other interested students. Examination of selected ethical issues in business and technology, including justice, corporate responsibility, preferential treatment, advertising practices, environmental responsibility, confidentiality, privacy, and government regulation. Prerequisite: ENGL 1010 (Grade C or higher). FA, SP, SU

MGMT 3600 Production & Operations (3)
Required for students pursuing School of Business majors; open to other interested students. Focuses on management of resources for products or services within an organization; covers facility location and layout, planning, and operational processes; and emphasizes product/service development, forecasting, inventory control, quality assurance, and research techniques. Prerequisites: STAT 2040; AND Advanced standing. FA, SP, SU

MGMT 3700 Organizational Behavior (3)
For students pursuing degrees in the School of Business. In-depth examination of behavioral theories and research, focusing on the individual in such areas as socialization, motivation, communication, leadership, decision-making, conflict resolution, team-building, and adaptation to change, emphasizing application of behavioral and organizational theory to develop managerial, leadership, and interpersonal skills. Prerequisite: MGMT 3400. SP, SU

MGMT 4000 Purchasing & Supply Mgmt (3)
For students pursuing degrees in the School of Business. Introduces basic elements, issues, and problems of modern purchasing and supply management processes and practices, with emphasis on identifying and solving purchasing and supply management problems. Prerequisite: MGMT 3600 (can be concurrently enrolled). FA, SP

MGMT 4200 Business Internship I (1 - 3)
Internship experience for students pursuing degrees in the School of Business. Variable credit 1-3. Prerequisites: Advanced standing; AND Instructor Permission. FA, SP, SU

MGMT 4210 Business Internship II (1 - 3)
Internship experience for students pursuing degrees in the School of Business. Variable credit 1-3. Prerequisites: MGMT 4200; AND Instructor Permission. FA, SP, SU

MGMT 4300 Human Resource Management (3)
For students pursuing degrees in the School of Business. Covers labor/management relations, harassment, discrimination, and legal issues. Emphasizes job analysis, design, recruiting, selection, placement, and orientation. Provides tools for the implementation of a human resource management program. SP

MGMT 4400 International Business (3)
Required for students pursuing School of Business majors; open to other interested students. Explores the unpredictable forces of foreign business environments and the role of multinational corporations in worldwide economic development with emphasis on complexities confronting US firms operating in international market, covering trade and foreign investment; theories of international trade, economic development, and international investment; and governmental and private international agencies, which affect international business. Prerequisites: MKTG 3010 (can be concurrently enrolled). FA, SP, SU

MGMT 4800 Strategic Management (3)
Required of students pursuing degrees in the School of Business. Capstone course focusing on the manager in dealing with strategic business challenges; the integration of functional areas, policy formulation and implementation. Course fee required. Prerequisites: ACCT 3050 (can be concurrently enrolled); AND FIN 3150 (can be concurrently enrolled); AND MGMT 3400 (can be concurrently enrolled); AND MKTG 3010 (can be concurrently enrolled). FA, SP, SU

MGMT 4900 Independent Research I (1 - 3)
For students pursuing degrees in the School of Business. Independent research/reading opportunity in areas not fully covered by core or elective courses. Prerequisites: Advanced standing; AND instructor permission. FA, SP, SU

MGMT 4910 Independent Research II (1 - 3)
For students pursuing degrees in the School of Business. Additional independent research/reading opportunities in areas not fully covered by current core or elective courses. Prerequisites: MGMT 4900; AND Advanced standing; AND instructor permission. FA, SP, SU

MGMT 4950 Seminar in Business (1 - 3)
For students pursuing degrees in the School of Business. Special topics in Business Management. Repeatable for credit as topics vary. Prerequisite: Advanced standing. SU

Manufacturing (MAN)

MAN 1010 Manufacturing Processes I (3)
For students pursuing an Operations Management degree. Provides a general understanding of, and experiences with, commonly used manufacturing techniques, including thermal mass-reducing, chemical reducing and deformation processes, as well as the use of lean manufacturing processes and introduction to the Six Sigma standard in evaluating quality. Combined lecture with lab / and practicum. Prerequisite: Admission to Dixie State College Operations Management program. Offered in rotation in Operations Management program.

MAN 1020 Industrial Maintenance I (3)
For students pursuing an Operations Management degree. Provides a general understanding of, and experiences with, commonly used industrial maintenance techniques, including basic maintenance principles, service and repair principles, electrical systems, electronics and programming controllers, as well as the use of total productive maintenance (TPM) and continued development of Six Sigma. Combined lecture with lab / and practicum. Prerequisite: Admission to Dixie State College Operations Management program. Offered in rotation in Operations Management program.

MAN 2010 Manufacturing Processes II (3)
For students pursuing an Operations Management degree. Provides a general understanding of, and experiences with, commonly used manufacturing techniques, including mechanical, thermal and chemical joining processes; annealing (softening); hardening; surface preparation; and surface coating processes, as well as the use of lean manufacturing processes and Six Sigma standards. Combined lecture with lab / and practicum. Prerequisite: Admission to Dixie State College Operations Management program; AND MAN 1010. Offered in rotation in Operations Management program.

MAN 2020 Industrial Maintenance II (3)
For students pursuing an Operations Management degree. Provides a general understanding of, and experiences with, commonly used industrial maintenance techniques, including refrigeration and boiler systems; heating, air conditioning and ventilation systems; mechanical systems; fluid power systems; and troubleshooting, as well as the use of total productive maintenance (TPM) and continued development of the Six Sigma. Combined lecture with lab / and practicum. Prerequisite: Admission to Dixie State College Operations Management program; AND MAN 1010. Offered in rotation in Operations Management program.

2011 - 2012 Catalog • Dixie State College 209
COURSE DESCRIPTIONS

MANAGEMENT (MKTG)

MKTG 1510 Principles of Salesmanship (3)
Required of students pursuing a General Marketing degree; and open to students interested in sales careers and the selling process in retail and non-retail environments. Includes proper prospecting methods, approaches, presentations, handling of objections, closing the follow-up, telemarketing, management of sales territories, sales forces, and sales meetings. FA

MKTG 1530 Collegiate DECA (1)
For members of Collegiate DECA, an organization for college students preparing for careers in marketing, management, and entrepreneurship, or related business areas, and is the post-secondary affiliate of Distributed Education Clubs of America (DECA). Designed to provide leadership development and marketing-related activities and competition not traditionally available in college courses. Annual Collegiate DECA membership fee required. Repeatable up to 4 credits subject to graduation restrictions. FA, SP

MKTG 1540 Marketing Skills Improvement (2)
Covers a wide variety of marketing and management skills areas in order to allow DEX students the opportunity to upgrade their marketing and management skills and prepare for competition through marketing and management skills, through actual participation in actual business simulations and case problems. Repeatable up to 4 credits subject to graduation restrictions. Corequisite: MKTG 1530. FA, SP

MKTG 1800 Marketing Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. FA

MKTG 1810 Marketing Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

MKTG 1820 Marketing Work Experience (3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

MKTG 2520 Principles of Display (2)
Required of students pursuing a General Marketing degree; and open to other interested students. Covers fundamental principles and elements of display necessary for effective visual presentation of both goods and services, including proper techniques for windows, interior, exterior, pinning and flying, and remote display, with ample opportunity to view, critique, and construct displays. SU

MKTG 2550 Marketing Essentials (3)
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. FA

MKTG 3010 Marketing Principles (3)
Required for students pursuing majors in the School of Business. Provides a basic background in the broad field of marketing by examining the processes that direct the planning and execution of the conception, pricing, promotion, and distribution of ideas, goods, and services to create exchanges that will satisfy individual and organizational objectives, including international implications, consumer behavior, product and distribution channel strategies, and pricing and promotional strategies. FA, SP, SU

MKTG 3450 Consumer Behavior (3)
For students pursuing majors in the School of Business. Covers the basic principles of consumer behavior, including the psychological, sociological, and anthropological bases of consumer behavior as related to consumer purchasing and consumption habits. Prerequisites: MKTG 3010; and Advanced Standing. SP

MKTG 3500 Promotion Management (3)
For students pursuing majors in the School of Business. Covers the purposes and production of advertising, including preparing productive, persuasive marketing and advertising campaign plans; and the social, legal, and economic considerations involved in the campaign planning process. Prerequisite: MKTG 3010; and Advanced standing. FA

MKTG 3515 Sales Management (3)
This course is designed for students to gain practical experience in using technology to understand the critical role marketing plays on shareholder satisfaction. Students will get hands-on experience in using Customer Relationship Management (CRM) software. The course will define specific elements of customer behavior and applied technology used to establish and build stronger, lasting relationships for the sustainable business model. Students will learn basic functions of sales force management, both in business-to-business and business-to-consumer environments. Students taking this course will learn salesperson effectiveness, deployment of structured sells and marketing communication(s), as well as optimal organizational design to support the technology aspect of enhance customer communications. Prerequisites: CIS 2100; AND MKTG 3010; AND STAT 2040. FA, SP

MKTG 4100 Marketing Research (3)
This course is designed for students to gain an understanding of the role that marketing research plays in identifying and solving marketing problems. The key emphasis is placed on problem identification, secondary data collection (to include data collection instruments, applied samplings and methods of acquisition), and data analysis techniques used in marketing research projects. The course will assist in the development of student’s skills and knowledge in conducting marketing research and evaluating its effectiveness for decision making. Prerequisites: CIS 2100; AND ENGL 1010; AND MKTG 3010; AND STAT 2040. FA, SP

MKTG 4200 Entrepreneurial Marketing (3)
This course is designed for students to gain practical experience with key marketing concepts and methods relevant for entrepreneurs. From initial thought or idea, to the launch of a company, the focus here is on market analysis and segmentation, product or service evaluation, marketing research and the overall development of the business concept. Students will gain an understanding of assessment of marketing potential, product/service design, successful distribu-
tion relationship and product pricing. The focus of this course is on new business 

MKTG 4700 Marketing Strategy (3)

For students pursuing majors in the School of Business. Integrates finance, marketing, and economic concepts to analyze marketing decision making and planning utilizing cases, projects, and computer simulations of work situations.

Prerequisite: MKTG 3010; and Advanced standing. FA

MATHematics (MATH)

MATH 0920 Basic Math/Pre-Algebra (4)

Designed for students with an ACT Math score of 12 or lower or for students needing to learn or review basic mathematics skills. Covers operations on whole numbers, fractions, decimals, percents with applications, ratios and proportions, signed numbers, linear equations with applications, positive integral exponents, geometry, and polynomials. Graphing and polynomial factoring will be introduced. Successful completers (Grade C or higher) will be prepared to enroll in MATH 0990. This course is offered in two delivery formats—lecture and individualized. Course fee required on individualized format MATH 0920 class. FA, SP, SU

MATH 0990 Elementary Algebra (4)

Designed for students with a Math placement score 13-17, or for students needing to learn or review elementary algebra. Covers operations on integers, fractions, integral exponents, polynomials with factoring, linear and quadratic equations with applications, rational expressions, linear systems, graphing, and radicals. Successful completers (Grade C or higher) will be prepared to enroll in MATH 1010. Prerequisite: Math placement score 13 or higher, OR MATH 0920 (Grade C or higher). FA, SP, SU

MATH 1001 FYE: Introduction to Math (1)

A First Year Experience course created to help students succeed in the Math major, and assist new freshmen and returning students to make a successful transition to being a college student. The primary objective of this course is to provide students with the resources they will need to succeed in their college careers, particularly in the Math major. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1026). Students may only take one FYE course for credit. FA

MATH 1010 Intermediate Algebra (4)

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 1030, MATH 1040, MATH 1050, and Mathematics prerequisite for BIOL 2030, CHEM 1120, PHYS 1010, and STAT 2040. Prerequisite: MATH 0990 (Grade C or higher) within two years of enrollment in this course; OR ACT or equivalent placement score 18 or higher within two years of enrollment in this course. FA, SP, SU

MATH 1020 Geometry (3)

Main topics include: properties, symmetry, congruency, and similarity of geometric figures; Pythagorean Theorem and right triangle relationships; areas; circles; constructions; use of geometrical thinking in solving problems and proofs. Prerequisite: MATH 0990 (Grade C or higher); OR MATH 1010 (can be concurrently enrolled). Offered based upon sufficient student need.

MATH 1030 Quantitative Reasoning (3)

Fullfills General Education Mathematics requirement for students in Fine Arts or Liberal Arts 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. Prerequisite: MATH 1010 (Grade C or higher) within two years of enrollment in this course; OR ACT or equivalent placement score 23 or higher within two years of enrollment in this course. SP

MATH 1040 Introduction to Statistics (3)

Fullfills General Education Mathematics requirement for students majoring in Communications, Social & Behavioral Sciences, Fine Arts, or Liberal Arts. 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. Successful completers satisfy Mathematics prerequisite for PSY 3000. Prerequisite: Math 1010 (Grade C or higher) within two years of enrollment in this course; OR ACT or equivalent placement score 23 or higher within two years of enrollment in this course. FA, SP, SU

MATH 1050 College Algebra / Pre-Calculus (4)

Fullfills General Education Mathematics requirement for students majoring in Business, Elementary Education, Health Sciences, 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 BIOL 3150, and CHEM 1210. Prerequisite: MATH 1010 (Grade C or higher) within two years of enrollment in this course; OR ACT or equivalent placement score 23 or higher within two years of enrollment in this course. FA, SP, SU

MATH 1060 Trigonometry (3)

Fullfills General Education Mathematics requirement. 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. Required for Utah Level 2 and Level 3 Math Endorsements. Successful completion fulfills prerequisite for MATH 1210 (along with 1050), and Mathematics prerequisite for PHYS 2010. Prerequisite: MATH 1050 (Grade C or higher) within two years of enrollment in this course; OR ACT or equivalent placement score 25 or higher within two years of enrollment in this course. FA, SP, SU

MATH 1065 Pre-Calculus with Trigonometry (5)

Fullfills General Education Mathematics requirement. 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. Prerequisite: MATH 1010 (Grade B or higher) within two years of enrollment in this course; OR ACT or equivalent placement score 25 or higher within two years of enrollment in this course. FA, SP, SU

MATH 1080 Math of Technology (3)

For students pursuing technical certificates. Review of basic mathematical operations, including basic number systems, fractions, percentages, exponents, and scientific notation, as well as basic geometry and algebra with practical application of trigonometry. Also covers use of hand-held calculator. Offered based on sufficient student need.
MATH 1100 Business Calculus (3)
Fulfills General Education Mathematics requirement. Required of majors in the Udvar-Hazy School of Business, and students majoring in CIT, IT, and VT. Emphasizes functions, modeling, differentiation, applications of differentiation, exponential and logarithmic functions, integration, applications of integration, and functions of several variables. Prerequisite: MATH 1050 (Grade C or higher) within two years of enrollment in this course; OR ACT or equivalent placement score 25 or higher within two years of enrollment in this course. FA, SP, SU

MATH 1210 Calculus I (5)
Fulfills General Education Mathematics requirement. 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 2250 and PHYS 2210. Prerequisite: MATH 1050 AND MATH 1060 (Grade C or higher); OR MATH 1065 (Grade C or higher); OR ACT or equivalent placement score 26 or higher. FA, SP

MATH 1220 Calculus II (4)
Fulfills General Education Mathematics requirement. Continuation of MATH 1210, covering measurements, 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: MATH 1210 (Grade C or higher). FA, SP

MATH 1800 Mathematics Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. FA

MATH 1810 Mathematics Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

MATH 1820 Mathematics Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

MATH 2010 Math for Elementary Teachers I (3)
The first course in a 2-semester sequence of mathematics appropriate to the needs of elementary and middle school teachers. Includes problem solving, sets, numeration systems, whole numbers, algorithms of arithmetic, number theory, rational numbers and decimal numbers. Required for Utah Elementary Education (Level 1) and Level 2 Math Endorsements. Prerequisite: MATH 1050 (Grade C or higher). FA, SP

MATH 2020 Math for Elem Teachers II (3)
The second course in a 2-semester sequence of mathematics appropriate to the needs of elementary and middle school teachers. Continuation of Math 2010. Includes real numbers, statistics, probability, geometry, measurement, and algebra. Required for Utah Elementary Education (Level 1) and Level 2 Math Endorsements. Prerequisite: MATH 2010 (Grade C or better). FA, SP, SU

MATH 2200 Discrete Mathematics (3)
Designed primarily for students majoring in Computer Science. Focuses on logic (including Boolean), set theory, functions, prepositional calculus, graph theory, combinatorics, and counting methods. Prerequisite: MATH 1210 (Grade C or higher). FA, SP, SU

MATH 2210 Multivariable Calculus (3)
Fulfills General Education Mathematics requirement. Continuation of MATH 1220. Includes partial derivatives, gradient vectors, Lagrange multipliers, multiple integrals, line integrals, Green’s Theorem, surface integrals, the Divergence Theorem, Stokes’ Theorem, and the introduction of Mathematica. Prerequisite: MATH 1220 (Grade C or higher). SP

MATH 2270 Linear Algebra (3)
For Mathematics and pre-Engineering majors. Covers matrix and vector analysis and systems of equations with applications, linear dependence and independence, matrix algebra and invertibility, determinants and their applications, Cramer’s Rule, diagonalization, eigenvaleus and eigenvectors, linear transformations (kernel and range), inner product, orthogonality, vector spaces and subspaces, including null and column and bases as well as introducing basic proof theory. Required for Utah Level 3 and 4 Math Endorsements. Prerequisite: MATH 1210 (Grade C or higher). FA

MATH 2280 Ordinary Differential Equation (3)
For Mathematics and pre-Engineering majors. Covers methods of solving ordinary differential equations with applications: separation of variables, homogeneous and non-homogeneous, exact, first and higher order, integrating factors, substitution methods, linear and non-linear, complex characteristic roots, variation of parameters, undetermined coefficients (superposition and annihilator approach), and Euler-Cauchy. Systems of equations, power series solutions, and the Laplace transform will be introduced. Required for Utah Level 4 Math Endorsement. Prerequisite: MATH 1220 (Grade C or higher). SP

MATH 2989 TI-89 Calculator Skills (1)
Designed to aid students in using the TI-89 (or similar) calculator through a study guide, demonstrations, and hands-on experience. Covered features include basic computation, matrices, graphing, and calculus applications. Each student must own or have access to a TI-89, TI-92, or TI Voyage 200 calculator. FA, SP

MATH 3000 History of Mathematics (3)
For all interested students. Brief survey of the history of mathematics and its impact on world culture, emphasizing the principal ideas of importance in the development of the mathematical motivations and applications. This course or MATH 3900 is required for Utah Level 4 Math Endorsement. Prerequisite: MATH 1220 (Grade C or higher). FA (odd years)

MATH 3100 Euclidean / Non-Euclidean Geom (3)
For pre-service Mathematics educators, but open to all interested students. Includes axiomatic development of Euclidean and non-Euclidean geometry. Computer-based GeoGebra program is used. Required for Utah Level 3 and
COURSE DESCRIPTIONS

4 Math Endorsements. **Prerequisite:** MATH 2200 (Grade C or higher). SP (odd years)

**MATH 3200 Introduction to Analysis I** (3)
For students interested in advanced Mathematics. Introduces the construction of rigorous proofs of mathematical claims in beginning analysis. Required for Utah Level 4 Math Endorsement. **Prerequisite:** MATH 2200 (Grade C or higher); AND MATH 2210 (Grade C or higher). FA (odd years)

**MATH 3210 Introduction to Analysis II** (3)
Continuation of MATH 3200. Includes continuity, differentiation, chain rule, Riemann integration, Fubini’s theorem, and change of variable formula. **Prerequisite:** MATH 3200. SP (even years)

**MATH 3400 Probability & Statistics** (3)
For students in majors that require mathematics-based statistics. Study of probability theory and mathematical statistics including applications in which Microsoft Excel and TI-83/84 calculators are used extensively. Required for Utah Level 3 and 4 Math Endorsements. **Prerequisite:** MATH 1220 (Grade C or higher). SP (odd years)

**MATH 3500 Numerical Analysis** (3)
Includes numerical solutions of nonlinear equations, interpolation and approximation, numerical integration and differentiation, and solutions of linear systems, numerical solutions of ordinary and partial differential equations, using Maple software to implement various algorithms numerically. **Prerequisites:** MATH 2270; AND MATH 2280. FA (even years)

**MATH 3900 Number Theory** (3)
Overview of number theory and its applications, including the integers, factorizations, modular arithmetic, congruencies, Fermat’s and Euler’s Theorems, diophantine equations, cryptography, and RSA algorithm. The computer-based Pari-GP program is used. This course or MATH 3000 is required for Utah Level 3 and 4 Math Endorsements.

**MATH 4000 Foundations of Algebra** (3)
For students in all Math-related majors. Covers an introduction to algebraic systems including group rings, fields and sets. Required for Utah Level 3 and 4 Math Endorsements. **Prerequisite:** MATH 1200. SP (even years)

**MATH 4010 Abstract Algebra** (3)
Continuation of MATH 4000. Topics include Sylow Theory for finite groups, Galois Theory, factorization in commutative rings. **Prerequisite:** MATH 4000. SP (odd years)

**MATH 4100 Introduction to Topology** (3)
Overview of elementary point-set topology. Includes topological spaces, compactness, connectedness, metric spaces, and Hausdorff spaces. **Prerequisites:** MATH 2200; AND MATH 2210. FA (odd years)

**MATH 4200 Intro to Complex Analysis** (3)
Overview of basic theory and applications of complex variables, including analytic functions, contour integration, and conformal mappings. **Prerequisite:** MATH 3200. SP (even years)

**MATH 4500 Methods Teach Secondary Math** (3)
Designed for pre-service educators, this course covers methods, remedial instruction, and curriculum development for secondary school mathematics, including applications of calculators and computers in mathematics. Technology used includes graphic calculators, spreadsheets, Internet searching, and computer-based geometry software. Required for Utah Level 2, 3, and 4 Math Endorsements. **Prerequisite:** MATH 1210 (Grade C or higher). FA (even years)

**MATH 4900 Senior Capstone Seminar** (3)
Required of all Mathematics majors in the senior year. Emphasizes the ability to analyze and communicate mathematically through projects to include researching topics, summarizing journal articles, using a technical documentation system such as LaTeX or Equation Editor, and making oral class presentations. Preparation for and completion of standardized exit exam is required. Course fee required. **Prerequisite:** Senior standing; and Mathematics major. SP

**MEDICAL RADIOGRAPHY (RADT)**

**RADT 1010 Intro to Radiography** (2)
Open to all students interested in medical radiography. Explores the field of radiography and its role in health care delivery. Covers fundamental concepts including medical terminology, radiation protection, ethics, career opportunities, professional development, and hospital operations. FA, SP

**RADT 1020 Radiographic Procedures I** (5)
First semester course. Instruction in how to perform radiographic procedures and identifying anatomy of the upper/lower extremities, chest, abdomen, bony thorax and pelvis with emphasis on radiation protection, surface landmarks and pathology. Image analysis is introduced. Course fee required. Taught in cohort rotation. **Prerequisite:** Admission to the Dixie State College Medical Radiography program. Offered in cohort rotation.

**RADT 1030 Radiographic Imaging I** (3)
First semester course. Analysis of factors affecting image quality and application of radiographic principles using imaging devices such as image receptors, grids and beam limiting devices, processing procedures, as well as introduction of basic digital imaging concepts. Taught in cohort rotation. **Prerequisite:** Admission to the Dixie State College Medical Radiography program. Offered in cohort rotation.

**RADT 1040 Clinical Education I** (4)
First semester course. Students will apply theories and develop skills in a supervised setting through observation, assisting, and performing basic radiographic procedures on upper/lower extremities, chest, abdomen, pelvis and bony thorax. 180 clinical hours. Taught in cohort rotation. **Prerequisite:** Admission to the Dixie State College Medical Radiography program. Offered in cohort rotation.

**RADT 1050 Patient Care** (2)
First semester course. Introduces the role of the radiographer as a health care provider. Topics include patient communication and education, patient transfer, vital signs, infection control, oxygen, suction, age-specific needs and cultural diversity. Taught in cohort rotation. **Prerequisite:** Admission to the Dixie State College Medical Radiography program. Offered in cohort rotation.

**RADT - 1120 Radiographic Procedures II** (4)
Second semester course. Instruction in performing radiographic procedures and identifying anatomy of the vertebral column, genitourinary, gastrointestinal and biliary systems, skull and facial bones, as well as advanced mobile and surgical procedures, composition and the use and effects of contrast media. Course fee required. Taught in cohort rotation. **Prerequisite:** Admission to the Dixie State College Medical Radiography program. Offered in cohort rotation.

**RADT 1140 Clinical Education II** (5)
Second semester course. Continuation of RADT 1040, providing students with the opportunity to apply theories and further develop technical skills with emphasis placed on vertebral column, biliary system, gastrointestinal and genitourinary procedures, skull and facial bones. Patient management specific to fluoroscopic and advanced radiographic procedures. 225 clinical hours. Taught in cohort rotation. **Prerequisite:** Admission to the Dixie State College Medical Radiography program. Offered in cohort rotation.
### COURSE DESCRIPTIONS

**RADT 1230 Radiographic Imaging II (2)**
Second semester course. Builds on theories and concepts introduced in RADT 1030, emphasizing quality assurance and quality control, digital and computed imaging components and processes and data and information management with PACS. Taught in cohort rotation. **Prerequisite**: Admission to the Dixie State College Medical Radiography program. **Offered in cohort rotation.**

**RADT 1240 Clinical Education III (7)**
Third semester course. Continuation of RADT 1140, providing students with the opportunity to apply theories and further develop technical skills. Students will gain experience in effective patient and time management specific to advanced radiographic procedures. 315 clinical hours. Course fee required. Taught in cohort rotation. **Prerequisite**: Admission to the Dixie State College Medical Radiography program. **Offered in cohort rotation.**

**RADT 1250 Advanced Patient Care (2)**
Second semester course. Instruction in advanced patient care skills, including pharmacology and contrast administration for medical imaging, medical ethics and law, and mobile and surgical radiography. Taught in cohort rotation. **Prerequisite**: Admission to the Dixie State College Medical Radiography program. **Offered in cohort rotation.**

**RADT 2030 Radiographic Physics (3)**
Fourth semester course. In-depth analysis of electrical circuitry, transformers, and rectifiers as they relate to x-ray production, as well as construction and function of the x-ray tube, fluoroscopic systems, video systems, AEC, and digital imaging. **Prerequisite**: Admission to the Dixie State College Medical Radiography program. **Offered in cohort rotation.**

**RADT 2040 Clinical Education IV (7)**
Fourth semester course. Continuation of RADT 1240 with emphasis on mastering basic procedures and attaining experience in advanced procedures with further awareness of radiation protection requirements. Students will rotate through advanced modality areas as assigned by Clinical Coordinator. 315 clinical hours. Course fee required. Taught in cohort rotation. **Prerequisite**: Admission to the Dixie State College Medical Radiography program. **Offered in cohort rotation.**

**RADT 2260 Radiography Seminar (3)**
Sixth semester course. Capstone course that offers review and reflection on previous coursework, providing students with a meaningful approach to evaluate strengths and weaknesses and to prepare for credentialing exams and employment. **Prerequisite**: Admission to the Dixie State College Medical Radiography program. **Offered in cohort rotation.**

**RADT 3020 Advanced Medical Imaging (3)**
Fourth semester course. Introduces additional imaging modalities and radiation therapy, including interventional radiography, sonography, CT, MRI, mammography, nuclear medicine and basic sectional anatomy. Taught in cohort rotation. **Prerequisite**: Admission to the Dixie State College Medical Radiography program. **Offered in cohort rotation.**

**RADT 3150 Radiobiology and Protection (3)**
Fourth semester course. In depth analysis of ionizing radiation and its effects on matter, including early and late effects of radiation, dose limits, radiation monitoring, and limiting radiation exposure to patients and personnel. Taught in cohort rotation. **Prerequisite**: Admission to Dixie State College Medical Radiography program. **Offered in cohort rotation.**

**RADT 3240 Clinical Education IV (7)**
Fifth semester course. Continuation of RADT 2040 with emphasis on developing an autonomous approach to the diversity of clinical situations and successfully adapting to them. Extended advanced modality rotations may be arranged following established guidelines and at the discretion of the Clinical Coordina-

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**MILS 1200 Introduction to Leadership I (1)**
For Army ROTC cadets and other interested students. Introduces the personal challenges and competencies critical to effective leadership, including how the development of life skills such as critical thinking, goal setting, time management, physical fitness, and stress management relate to leadership, officership, and the Army profession. Focuses on developing basic knowledge and comprehension of Army leadership learning about the ROTC program, its purpose in the Army, and its advantages for the student. **Corequisite**: MILS 1201. **Fi**

**MILS 1201 Intro to Leadership I Lab (1)**
For Army ROTC cadets and other interested students. Cover dynamics of group and individual leadership in a field environment, including opportunities to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or other career. Lab fee required. **Corequisite**: MILS 1202. **Fa**

**MILS 1202 Military Fitness I (1)**
For Army ROTC cadets and other interested students. Uses Army Physical Fitness Test to evaluate performance and improvement in flexibility, strength, and endurance. Also includes foot care and road marching techniques. **Corequisite**: MILS 1200. **Fa**

**MILS 1210 Intro to Leadership II (1)**
For Army ROTC cadets and other interested students. Covers leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback, and using effective writing skills while exploring leadership values, attributes, skills, and actions in the context of practical, hands-on, and interactive exercises. Cadre role models and the building of stronger relationships among the cadets through common experience and practical interaction are critical. **Corequisite**: MILS 1211. **Sp**

**MILS 1211 Intro to Leadership II Lab (1)**
For Army ROTC cadets and other interested students. Covers dynamics of group and individual leadership in a field environment, including opportunities to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or other career. Lab fee required. **Corequisite**: MILS 1212. **Sp**

**MILS 1212 Military Fitness II (1)**
For Army ROTC cadets and other interested students. For Army ROTC cadets and other interested students. Uses Army Physical Fitness Test to evaluate performance and improvement in flexibility, strength, and endurance. Also include foot care and road marching techniques. Uniform will be issues provided individual meets military grooming standards. **Corequisite**: MILS 1210. **Sp**

**MILS 2200 Foundations of Leadership I (2)**
For Army ROTC cadets and other interested students. Covers creative and innovative tactical leadership strategies and styles; personal motivation and team building in planning, executing, and assessing team exercises and participating in leadership labs in order to further develop leadership values and attributes.
through an understanding of Army rank, structure, and duties and basic aspects of land navigation and squad tactics, as well as learning the Soldiers Creed and Warrior Ethos as they apply in the contemporary operating environment.  

Corequisite: MILS 2201.  FA

MILS 2201 Foundations Leadership I Lab  
For Army ROTC cadets and other interested students. Covers dynamics of group and individual leadership in a field environment, including opportunities to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or other career. Lab fee required. Corequisite: MILS 2200.  FA

MILS 2210 Foundations Leadership II  
For Army ROTC cadets and other interested students. Covers dynamics of leading tactical teams in the contemporary operating environment, including terrain analysis, patrolling, and operation orders. Develops greater self-awareness of leadership styles and improved communication and team building skills while practicing of teamwork and tactics in real world scenarios. Corequisite: MILS 2211.  SP

MILS 2211 Foundations Leadership II Lab  
For Army ROTC cadets and other interested students. Covers dynamics of group and individual leadership in a field environment, including opportunities to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or other career. Lab fee required. Corequisite: MILS 2210.  SP

MILS 3200 Tactical Leadership  
For Army ROTC cadets. Develops adaptive and tactical leadership abilities through challenging scenarios of squad tactical operations and feedback in order to improve leadership skills and critical thinking abilities. Basic training or summer Leadership Training Course may be substituted for prerequisites. Prerequisites: MILS 1200; AND MILS 1210; AND MILS 2200; AND MILS 2210. Corequisite: MILS 3201.  FA

MILS 3201 Tactical Leadership Lab  
For Army ROTC cadets. Covers dynamics of group and individual leadership in a field environment, including opportunities to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or other career. Lab fee required. Corequisite: MILS 3200.  FA

MILS 3210 Applied Leadership  
For Army ROTC cadets. Includes increasingly intense situational leadership challenges to build skills in leadership, decision-making, and persuading and motivating team members, as well as application of Law of Land Warfare, Army training, troop motivation procedures, and conducting military briefings and developing proficiency in Garrison operation orders. Basic training, summer Leadership Training Course, or Instructor permission may be substituted for prerequisites. Prerequisites: MILS 1200; AND MILS 1210; AND MILS 2200; AND MILS 2210. Corequisite: MILS 3211.  SP

MILS 3211 Applied Leadership Lab  
For Army ROTC cadets. Covers dynamics of group and individual leadership in a field environment, including opportunities to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or other career. Lab fee required. Corequisite: MILS 3210.  SP

MILS 3250 Staff Org & Operations  
For enrolled Army ROTC cadets. Students participate as special project staff working on joint Army/campus ceremonies, leadership labs, field training exercises, community service events, and training camps. Basic training or summer Leadership Training Course may be substituted for prerequisites. Prerequisites: MILS 1200; AND MILS 1210; AND MILS 2200; AND MILS 2210.  SP

MILS 3930 U.S. Military History  
For Army ROTC cadets and other interested students. Survey of the development of the U.S. military to the present day including organizational, tactical, technological, and strategic aspects, with an emphasis on the causal factors and operational dimensions of war. Combined lecture / lab hours. Course fee required. FA, SP

MILS 4200 Developmental Leadership  
For Army ROTC cadets. Covers planning, executing, and assessing complex operations, functioning as a member of a staff, providing performance feedback to subordinates, assessing risk, making ethical decisions, and leading fellow ROTC cadets. Includes lessons on military justice; personnel processes; analysis, evaluation, and instruction of lower level cadets; identifying responsibilities of key staff; coordinating staff roles; and using situational opportunities to teach, train, and develop subordinates. Basic training or summer Leadership Training Course may be substituted for prerequisites. Prerequisites: MILS 1200; AND MILS 1210; AND MILS 2200; AND MILS 2210. Corequisite: MILS 4200.  FA, SP

MILS 4201 Developmental Leadership Lab  
For Army ROTC cadets. Covers dynamics of group and individual leadership in a field environment, including opportunities to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or other career. Lab fee required. Corequisite: MILS 4200.  FA, SP

MILS 4210 Adaptive Leadership  
For Army ROTC cadets. Covers dynamics of leading in complex military operations in the contemporary operating environment, including customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism, as well as interacting with nongovernmental organizations, civilians on the battlefield, and host nation support, using case studies, scenarios, and exercises to prepare cadets to face the complex ethical and practical demands of leading as commissioned officers in the United States Army. Prerequisites: MILS 1200; AND MILS 1210; AND MILS 2200; AND MILS 2210. Corequisite: MILS 4211.  SP

MILS 4211 Adaptive Leadership Lab  
For Army ROTC cadets. Covers dynamics of group and individual leadership in a field environment, including opportunities to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or other career. Lab fee required. Corequisite: MILS 4210.  SP

MILS 4250 Ranger Preparation  
For Army ROTC cadets. Participation in advanced military training with practical application of skills in Army ROTC Ranger Challenge and Mountain Ranger programs. Prerequisites: MILS 4210; AND Instructor permission. SP

MILS 4350 Special Project  
For enrolled Army ROTC cadets. Students participate as special project staff working on joint Army/campus ceremonies, leadership labs, field training exercises, community service events, and training camps. Basic training or summer Leadership Training Course may be substituted for prerequisites. Prerequisites: MILS 1200; AND MILS 1210; AND MILS 2200; AND MILS 2210.  SP

MUSIC (MUSC)  
MUSC 1000 Concert Attendance  

Required of Music majors. Emphasizes critical listening of a wide range of music literature and performances through attendance at a minimum of 8 concerts/recitals per semester. Prepares students with models for future recitals. Requires attendance at evening performances. Repeatable with no limit. FA, SP

**MUSC 1001 Freshman Music Experience** (1)

A First Year Experience course that introduces students to the music department and its programs, policies and procedures, curriculum, and career opportunities for graduates. Includes observation outside class. Introduces music technology required for later work. Assignments may include group projects, technology exercises, and reflective essays/journals. Students will understand the expectations and rigor of the music major. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1020). Students may only take one FYE course for credit. FA

**MUSC 1010 Introduction to Music** (3)

Fulfills General Education Fine Arts requirement. 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. FA, SP

**MUSC 1100 Fundamentals of Music** (3)

For students beginning their music education or needing a developmental course in preparation for Music Theory. Teaches fundamental music terminology, rhythm and clef reading, key signatures, intervals, chord construction, and principles of musical structure. Students who successfully complete this course will be more proficient in reading rhythm and meter, writing and hearing scales, intervals, and chords. FA, SP

**MUSC 1110 Music Theory I** (3)

Required of all Music majors. The first course of music theory study deals with structural elements in melodic organization, triads, voice leading, nonharmonic tones, seventh chords, and modulation in the context of traditional four-part harmony as well as two-part tonal counterpoint. Students must have knowledge of music fundamentals and basic keyboard skills before enrolling. Successful completers are prepared for MUSC 1120. Corequisite: MUSC 1130, FA

**MUSC 1120 Music Theory II** (3)

Required of all Music majors. The second course of music theory study deals with structural elements in melodic organization, triads, voice leading, nonharmonic tones, seventh chords, and modulation in the context of traditional four-part harmony as well as two-part tonal counterpoint. Successful completers are prepared for MUSC 2110. Prerequisite: MUSC 1110. Corequisite: MUSC 1140. SP

**MUSC 1130 Ear Training & Sight Singing I** (1)

Required of all Music majors. The first in a series of four ear training and sight singing courses dealing with aural and sight singing skills that parallel the theoretical material of Music Theory. Simple keyboard skills are necessary. Corequisite: MUSC 1110. FA

**MUSC 1140 Ear Training/Sight Singing II** (1)

Required of all Music majors. The second in a series of four ear training and sight singing courses dealing with aural and sight singing skills that parallel the theoretical material of Music Theory. Simple keyboard skills necessary. Prerequisite: MUSC 1130. Corequisite: MUSC 1120. SP

**MUSC 1150 Group Piano Instruction I** (1)

For non-Music majors and non-keyboard Music majors. Prepares Music majors for Piano Proficiency Exam. Introduction to reading music: treble and bass clef, proper piano technique, basic rhythm, music notation and elementary theory, including demonstrations, activities, opportunities for improvisation, individualized instruction, and solo and ensemble experience using electronic keyboards. Repeatable up to 2 credits subject to graduation restrictions. FA, SP

**MUSC 1160 Group Piano Instruction II** (1)

For non-music majors and non-keyboard music majors. Prepares Music majors for Piano Proficiency Exam. Introduction to piano technique, music notation, elementary theory, reading, harmonization and transposition. Lab includes demonstrations, activities, opportunities for improvisation, individualized instruction and solo and ensemble experience using electronic keyboards. Prepares students to harmonize major and minor melodies, play major and minor scales, primary chords and arpeggios, sight-read, and perform repertoire. Repeatable up to 2 credits subject to graduation restrictions. Prerequisite: MUSC 1150. FA, SP

**MUSC 1200 Show Choir** (1)

Open to all students. Audition required. Students learn performance skills in music and movement. Covers musical elements such as rhythm, pitch, blend and balance. Uses choral rehearsals techniques. Requires time for performance outside class, including evenings and weekends. Audition required. Repeatable up to 8 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

**MUSC 1320 Varsity Band** (1)

A performing ensemble for any interested instrumental musician who has previous experience in high school bands or the equivalent. Teaches the fundamentals of good ensemble playing through “Pop” band music and class participation. Required to perform at all home football and basketball games. Students may be remunerated for their service in this ensemble. No audition required. Repeatable up to 8 credits subject to graduation restrictions. Prerequisite: Instructor permission. MUSC 3310. FA, SP

**MUSC 1730 Vocal Study** (1)

For non-Music majors and non-keyboard Music majors. Prepares Music majors for Piano Proficiency Exam. Introduction to reading music: treble and bass clef, proper piano technique, basic rhythm, music notation and elementary theory, including demonstrations, activities, opportunities for improvisation, individualized instruction, and solo and ensemble experience using electronic keyboards. Repeatable up to 2 credits subject to graduation restrictions. FA, SP
**COURSE DESCRIPTIONS**

**MUSC 1760  Brass Study**  (1)
Required of students pursuing an Instrumental Music Education major. Fulfills music elective credit for other music degree emphases. Covers the history of brass instruments and their pedagogy and performance as well as potential methodologies to use in public school curriculum. Classes will consist of lecture, hands-on playing, and assembling materials for future reference. Course objectives include mastering embouchures and fingerings for varied brass instruments. Successful completers should be qualified to identify and remedy brass playing performance errors in grade 7-12 music. FA (Odd years)

**MUSC 1770  Woodwind Study**  (1)
Required of students pursuing an Instrumental Music Education major. Fulfills music elective credit for other music degree emphases. Covers the history of string instruments and their pedagogy and performance as well as potential methodologies to use in public school curriculum. Classes will consist of lecture, hands-on playing, and assembling materials for future reference. Course objectives include mastering embouchures and fingerings for varied woodwind instruments. Successful completers should be qualified to identify and remedy woodwind playing performance errors in grade 7-12 music. FA (Even years)

**MUSC 1790  Beginning Guitar**  (1)
For all students interested in an introduction to guitar playing. Teaches students to play chords, strum and fingerpick patterns, and read music in first position using lecture, text, and guest lecturers. Students are required to practice at least three hours each week outside of class. Students who successfully complete this course will be able to teach themselves from standard sheet music. Repeatable up to 2 credits subject to graduation restrictions. FA, SP

**MUSC 1800  Intermediate Guitar**  (1)
For students with basic guitar skills. Students should be familiar with first position chords, basic accompaniment styles and read music in first position before taking this course. Teaches students bar chords, chords with added bass notes, advanced accompaniment, improvisation, arranging skills and reading in upper positions. Students who successfully complete this course will have a thorough knowledge of the guitar fingerboard. Repeatable up to 2 credits subject to graduation restrictions. FA, SP

**MUSC 1801  Prvt Lesson I NonMajor Vocal**  (1)
Private music instruction for non-music majors seeking to increase skills in vocal performance. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. FA, SP

**MUSC 1802  Prvt Lesson I NonMajor Piano**  (1)
Private music instruction for non-music majors seeking to increase skills in piano performance. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. FA, SP

**MUSC 1803  Prvt Lesson I NonMajor Brass**  (1)
Private music instruction for non-music majors seeking to increase skills in brass performance. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. FA, SP

**MUSC 1804  Prvt Lesson I NonMajor String**  (1)
Private music instruction for non-music majors seeking to increase skills in violin, viola, cello, or bass performance. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. FA, SP

**MUSC 1805  Prvt Lesson I NonMajor Wdwind**  (1)
Private music instruction for non-music majors seeking to increase skills in woodwind performance. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. FA, SP

**MUSC 1806  Prvt Lesson I NonMajor Guitar**  (1)
Private music instruction for non-music majors seeking to increase skills in guitar performance. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. FA, SP

**MUSC 1807  Prvt Lesson I NonMajor Organ**  (1)
Private music instruction for non-music majors seeking to increase skills in organ performance. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. FA, SP

**MUSC 1808  PrvtLessonI NonMajorPercussion**  (1)
Private music instruction for non-music majors seeking to increase skills in percussion performance. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. FA, SP

**MUSC 1810  Private Lesson I Major: Vocal**  (1)
Private vocal instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: Instructor permission. FA, SP

**MUSC 1811  Private Lesson I Major: Piano**  (1)
Private piano instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: Instructor permission. FA, SP

**MUSC 1812  Private Lesson I Major: Brass**  (1)
Private brass instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: Instructor permission. FA, SP

**MUSC 1813  Private Lesson I Major: String**  (1)
Private string instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: Instructor permission. FA, SP

**MUSC 1814  Prvt Lesson I Major: Woodwind**  (1)
Private woodwind instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: Instructor permission. FA, SP

**MUSC 1815  Private Lesson I Major: Guitar**  (1)
Private guitar instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: Instructor permission. FA, SP

**MUSC 1821  Prvt Lesson I Major Percussion**  (1)
Private percussion instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: Instructor permission. FA, SP
MUSC 2110  Music Theory III  (3)
Required of all Music majors. Third in a sequence of four Music Theory classes.
Includes the study of chromatic harmony, 16th and 18th century counterpoint, 20th century compositional techniques, formal and harmonic analysis. Prerequisite: MUSC 1120. Corequisite: MUSC 2130. F A

MUSC 2120  Music Theory IV  (3)
Required of all Music majors. Fourth and final course in Music Theory. Includes the study of chromatic harmony, 16th and 18th century counterpoint, 20th century compositional techniques, formal and harmonic analysis. Prerequisite: MUSC 2110. Corequisite: MUSC 2140. SP

MUSC 2130  Ear Training/Sight Singing III  (1)
Required of all Music majors. The third of four courses in a series of ear training and sight singing courses dealing with aural and sight singing skills that parallel the theoretical material of Music Theory. Simple keyboard skills necessary. Prerequisite: MUSC 1140. Corequisite: MUSC 2110. F A

MUSC 2140  Ear Training/Sight Singing IV  (1)
Required of all Music majors. The fourth and final course in ear training and sight singing courses dealing with aural and sight singing skills that parallel the theoretical material of Music Theory. Simple keyboard skills necessary. Prerequisite: MUSC 2130. Corequisite: MUSC 2120. SP

MUSC 2150  Group Piano Instruction III  (1)
For non-Music majors and non-keyboard music majors. Prepares Music majors for Piano Proficiency Exam, which includes piano technique, sight-reading, accompanying, improvisation, transposition, and performance skills using electronic keyboards. Repeatable up to 2 credits subject to graduation restrictions. Prerequisite: MUSC 1160. FA, SP

MUSC 2160  Group Piano Instruction IV  (1)
For non-Music majors and non-keyboard music majors. Prepares Music majors for Piano Proficiency Exam, which includes piano technique, sight-reading, accompanying, improvisation, transposition, and performance skills using electronic keyboards. Repeatable up to 2 credits subject to graduation restrictions. Prerequisite: MUSC 2150. FA, SP

MUSC 2350  Fundamentals of Conducting  (2)
Required of all Music majors, but open to other students with an interest in ensemble conducting. Covers the fundamental aspects of conducting choral and/or instrumental groups. Topics include: basic patterns, cueing, use of the left hand, offbeat entrances, fermatas, caesuras, tenuto, dynamics. Students are involved in conducting the class both as conductor and ensemble member. Concert attendance for purposes of viewing other conductors is required. Students must have some background in vocal or instrumental ensembles and be able to read music. Students who successfully complete this course will have improved ability to conduct choral and/or instrumental music. SP (Even years)

MUSC 2710  Theatre Orchestra  (1)
For students participating as musicians for the pit orchestra. Accompanies the musical productions of the DSC Theatre program. Student musicians work closely with their conductor in developing score dynamics, tempo and tone to accompany on-stage performances. Repeatable up to 8 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

MUSC 2810  Private Lesson II Major: Vocal  (1)
Private vocal instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 1810. FA, SP

MUSC 2811  Private Lesson II Major: Piano  (1)
Private piano instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 1811. FA, SP

MUSC 2812  Private Lesson II Major: Brass  (1)
Private brass instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 1812. FA, SP

MUSC 2813  Prvt Lesson II Major: String  (1)
Private string instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 1813. FA, SP

MUSC 2814  Prvt Lesson II Major Woodwind  (1)
Private woodwind instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 1814. FA, SP

MUSC 2815  Prvt Lesson II Major: Guitar  (1)
Private guitar instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 1815. FA, SP

MUSC 2821  PrvtLesson II Major Percussion  (1)
Private percussion instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 1821. FA, SP

MUSC 3005  SUOSA Workshops  (1)
For elementary educators, as well as preschool, middle school, and physical and special education teachers. Focuses on Orff Schulwerk, a unique child-centered approach to music education based on the work of composer Carl Orff in which speech, song, dance, and play active engage children in making music using an array of melody and percussion instruments. Four workshops covering introductory Orff pedagogy will be supplemented by special sessions with experts on the child voice and early childhood music. Previous formal music pedagogy will be supplemented by special sessions with experts on the child voice and early childhood music. Previous formal music training is not required. 15 hours of workshop instruction. Evidence of learning required in forms of term papers and lesson plans. Repeatable up to 4 credits subject to graduation restrictions. SU

MUSC 3210  Vocal Theatre Performance  (1)
For students participating as vocal performers in musical productions of the DSC Theatre program. Student vocalists and chorus members work closely with their conductor in developing on-stage performances. Repeatable up to 4 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

MUSC 3221  Choral Literature  (2)
Study of choral music, both sacred and secular, from antiquity through 20th Century; the relationship of world music to the choral genre; current composers
Students will actively participate in regular rehearsals and public performances.

MUSC 3222  Choral Conducting (2)
In depth study and development of conducting practices specific to choral music within the five major musical periods, including unaccompanied, keyboard accompanied, and orchestral/choral works as well as examples from world music. Students will complete an in-depth analysis of a choral work. Prerequisite: MUSC 2350. SP (Odd years)

MUSC 3230  Southwest Chorale (1)
Large choral ensemble, composed primarily of community members interested in musical enrichment, that frequently performs with the Southwest Symphony Orchestra. Students selected by audition will actively participate in regular rehearsals and public performances and thereby develop advanced concepts of good choral singing, including balance, blend, intonation, tone, and interpretation while experiencing a wide variety of musical styles from the Renaissance to the twentieth-century (classical and popular styles) with an emphasis on major choral and orchestral works. Audition required. Repeatable up to 8 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

MUSC 3240  Southern Utah Heritage Choir (1)
Large choral ensemble composed primarily of community members interested in performing sacred choral music. Students selected by audition will actively participate in regular rehearsals and public performances and thereby develop advanced concepts of good choral singing, including balance, blend, intonation, tone, and interpretation while experiencing a wide variety of musical styles from the Renaissance to the twentieth-century (classical and popular styles) with an emphasis on major choral and orchestral works. Audition required. Repeatable up to 8 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

MUSC 3250  Concert Choir (1)
Large choral performing ensemble open to students interested in musical enrichment as well as students pursuing a Music major. The student will develop advanced concepts of good choral singing including balance, blend, intonation, tone, and interpretation while experiencing a wide variety of musical styles from the Renaissance to the twentieth-century (classical and popular styles). Students will actively participate in regular rehearsals and public performances. No audition required. Repeatable up to 8 credits subject to graduation restrictions. FA, SP

MUSC 3260  Men's Chorus (1)
Male students with advanced choral music experience who are selected for this ensemble will develop singing skills through rehearsals and performances of appropriate musical literature from Medieval to vocal jazz. No audition required. Repeatable up to 8 credits subject to graduation restrictions. FA, SP

MUSC 3270  Chamber Singers (1)
Students with advanced choral music experience who are selected for this small ensemble will develop singing skills through rehearsals and performances of appropriate musical literature from Medieval to vocal jazz. No audition required. Repeatable up to 8 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

MUSC 3280  Women's Chorus (1)
Female students with advanced choral music experience who are selected for this ensemble will develop singing skills through rehearsals and performances of appropriate musical literature from Medieval to vocal jazz. No audition required. Repeatable up to 8 credits subject to graduation restrictions. FA, SP

MUSC 3290  The Vocal Jazz Project (1)
Students with advanced choral music experience who are selected for this small choral ensemble will demonstrate their dedication to the study and performance of vocal jazz literature by developing advanced concepts of good choral singing including balance, blend, intonation, tone, and interpretation through appropriate small ensemble vocal jazz literature. Students will actively participate in regular rehearsals and public performances. No audition required. Repeatable up to 8 credits subject to graduation restrictions. FA, SP

MUSC 3310  Symphony Band (1)
Large instrumental performing ensemble open to students interested in musical enrichment as well as students pursuing a Music major. Students will practice their instruments while working on the fundamentals of ensemble playing (tone quality, balance, blend, dynamics, etc.) as well as the more advanced concepts of good musicianship (phrasing, rhythms, sight reading, interpretation, etc.). This course also exposes the student to the standard band repertoire as well as the more recent or contemporary literature. Students will actively participate in regular rehearsals and public performances. No audition required. Repeatable up to 8 credits subject to graduation restrictions. FA, SP

MUSC 3330  Jazz Ensemble (1)
Students with previous experience in jazz and improvisation who are selected for this instrumental ensemble will study various styles of music, including swing, Latin, rock, and ballads, through the medium of the “big band” (5 saxophones, 5 trumpets, 5 trombones, piano, bass drums, and guitar) using sight reading, improvisation, and performance. Students will actively participate in regular rehearsals and public performances. Audition required. Repeatable up to 8 credits subject to graduation restrictions. Prerequisite: Instructor permission. Corequisite: MUSC 3310. FA, SP

MUSC 3335  Jazz Improvisation I (1)
For both instrumentalists and vocalists, includes Jazz styles, improvisational theory, and techniques with emphasis on small groups playing supervised improvisation. Emphasizes the development of beginning improvisational skills, from modal and the ii-V7-I chord progression through instrumental and vocal performance. Students should complete at least two semesters of private instruction to prepare for the music technique required in this course. Repeatable up to 2 credits subject to graduation restrictions. Prerequisite: MUSC 1130. SU

MUSC 3340  Southwest Symphony Orchestra (1)
Students and community performers who are accomplished on their instrument, studying privately, and have previous orchestral experience may participate in this full symphony orchestra performing symphonies, oratorios, concertos, overtures, etc., from various style periods, including Baroque, Classic, Romantic, and Twentieth Century. Audition required. Repeatable up to 8 credits subject to graduation restrictions. Prerequisite: Instructor permission. Corequisite: MUSC 3310. FA, SP

MUSC 3350  Symphony Orchestra (1)
Performing ensemble for all interested student musicians with previous instrumental or band experience, including woodwinds, brass, strings, and percussion. Students will develop sight reading, rehearsal, and public performance skills as well as knowledge of and appreciation of the symphonic literature of the 16th, 17th, 18th, 19th, and 20th century composers. No audition required. Repeatable up to 8 credits subject to graduation restrictions. FA, SP

MUSC 3370  Guitar Ensemble (1)
Performing ensemble for selected students who can read music and know at least one instrument. Those selected will gain experience in ensemble, reading music and rhythms, and following a director. Audition required. Repeatable up to 8 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

MUSC 3380  Instrumental Conducting (2)
For Music and Music Education majors, instruction in conducting instrumental groups, including gaining independence of hands, uncommon meters, use of imagery, score preparation with both reduced and full scores, and basic understanding of transposition. Students are involved in conducting the class conduc-
MUSC 3400 Music Composition (2)
For students pursuing a Music degree to improve and refine music writing skills within the Western Art Music tradition. Writing assignments, additional listening and score study, and seminars focusing on topics in modern composition are combined. Prerequisite: MUSC 2110. FA, SP

MUSC 3540 Form and Analysis (3)
Analytical study of forms from 18th Century to the present, including baroque contrapuntal structures and instrumental forms, classical sonata cycle and romantic part forms. Emphasizes written and aural analysis. Prerequisite: MUSC 2110. SP

MUSC 3630 Music History & Literature I (3)
Required of all students pursuing Music majors, and open to other interested students. A survey of western music from Antiquity through the Baroque periods, including world music, in depth studies of composers, styles, genres, and visual art and social influences, as well as reinforcement of music theory, aural skills, and pedagogy. OA, SP

MUSC 3640 Music History & Literature II (3)
Required of all students pursuing Music majors, and open to other interested students. A survey of western music from the Classical through the 20th century periods, including world music, in depth studies of composers, styles, genres, and visual art and social influences, as well as reinforcement of music theory, aural skills, and pedagogy. SP

MUSC 3660 Music of the U.S.A. (3)
Examines the distinctly American music styles of folk, popular, jazz, sacred, stage works, and orchestral music. Drawing from the varied perspectives of creator, performer, promoter, and audience, students will come to understand the function and context within which these music genres have been and continue to be created in the United States. FA, SP

MUSC 3801 Prvt Lesson II NonMajor Vocal (1)
Private music instruction for non-music majors seeking to increase skills in vocal performance. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 1801. FA, SP

MUSC 3802 Prvt Lesson II NonMajor Piano (1)
Private music instruction for non-music majors seeking to increase skills in piano performance. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 1802. FA, SP

MUSC 3803 Prvt Lesson II NonMajor Brass (1)
Private music instruction for non-music majors seeking to increase skills in brass performance. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 1803. FA, SP

MUSC 3804 Prvt Lesson II NonMajor String (1)
Private music instruction for non-music majors seeking to increase skills in violin, viola, cello, or bass performance. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 1804. FA, SP

MUSC 3805 Prvt Lesson II NonMajor Woodwind (1)
Private music instruction for non-music majors seeking to increase skills in woodwind performance. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 1805. FA, SP

MUSC 3806 Prvt Lesson II NonMajor Guitar (1)
Private music instruction for non-music majors seeking to increase skills in guitar performance. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 1806. FA, SP

MUSC 3807 Prvt Lesson II NonMajor Organ (1)
Private music instruction for non-music majors seeking to increase skills in organ performance. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 1807. FA, SP

MUSC 3808 Prvt Lesson II NonMajor Percuss (1)
Private music instruction for non-music majors seeking to increase skills in percussion performance. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 1808. FA, SP

MUSC 3810 Prvt Lesson III Major: Vocal (1)
Private vocal instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 2811. FA, SP

MUSC 3811 Prvt Lesson III Major: Piano (1)
Private piano instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 2810. FA, SP

MUSC 3812 Prvt Lesson III Major: Brass (1)
Private brass instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 2812. FA, SP

MUSC - 3813 Prvt Lesson III Major: String (1)
Private string instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 2813. FA, SP

MUSC 3814 Prvt Lesson III Major: Woodwind (1)
Private woodwind instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 2814. FA, SP

MUSC 3815 Prvt Lesson III Major: Guitar (1)
Private guitar instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 2815. FA, SP

MUSC 3821 Prvt Lesson III Maj Percussion (1)
Private percussion instruction for music majors. Participation in departmental recitals and a final jury examination are required. 50-minute lesson and one-hour performance class per week. Student must pass jury exam to progress to next level of private instruction. Repeatable up to 2 credits subject to graduation restrictions. Course fee required. Prerequisite: MUSC 2821. FA, SP

MUSC 3861 Diction for Singers I (2)
For vocal students interested in learning International Phonetic Alphabet and the fundamentals of the proper pronunciation of French and German diction as it applies to singing. Students will learn via written and verbal assignments as well as singing in class. This course prepares successful completers for the proper performance of French and German vocal literature. **Prerequisite:** MUSC 3861. **SP (Odd years)**

**MUSC 3862**  Diction for Singers II (2)

For vocal students interested in learning International Phonetic Alphabet and the fundamentals of the proper pronunciation of French and German diction as it applies to singing. Students will learn via written and verbal assignments as well as singing in class. This course prepares successful completers for the proper performance of French and German vocal literature. **Prerequisite:** MUSC 3861. **SP (Odd years)**

**MUSC 3865**  Piano Pedagogy I (2)

For students pursuing a Music major and piano teachers who wish to improve their skills. Designed to prepare qualified pianists to teach piano effectively and to acquaint them with new materials and techniques from beginning to intermediate levels. Principles taught include rhythm, technique, sight-reading, harmonization, improvisation, transposition, music technology, practice skills, private and group lesson pedagogies, and learning styles. **Prerequisite:** MUSC 3865. **SP (Odd years)**

**MUSC 3866**  Piano Pedagogy II (2)

For students pursuing a Music major and piano teachers who wish to improve their skills. Designed to prepare qualified pianists to teach piano effectively and to acquaint them with new materials and techniques from the intermediate levels of piano instruction. Principles taught include: rhythm, technique, sight-reading, harmonization, improvisation, transposition, music technology, practice skills, private and group lesson pedagogies, and learning styles. **Prerequisite:** MUSC 3865. **SP (Odd years)**

**MUSC 3890**  Junior Recital (1)

For students pursuing a Music major. Applied instruction in preparation for and public performance of a 30 minute recital, including musical and extra-musical preparation. Successful completion should prepare students to perform publicly in a solo capacity. Piano Proficiency Exam required before enrolling. Requires prerequisite or Corequisite 3000-level private music lesson. **Prerequisite:** Instructor permission. **FA, SP**

**MUSC 4430**  String Chamber Music (1)

For string musicians desiring study in instrumental chamber ensembles such as string trios, quartets, quintets, and sextets. Emphasis on basic repertoire, small ensemble performance techniques, and rehearsal skills. Students should be concurrently enrolled in private string lessons. Groups are required to meet two hours each week: one hour for rehearsal as an ensemble and one hour with faculty for a coaching lesson. Public performances required. Repeatable up to 8 credits subject to graduation restrictions. **Prerequisite:** Instructor permission. **Corequisite:** MUSC 3350. **FA, SP**

**MUSC 4431**  Woodwind Chamber Music (1)

For woodwind musicians seeking a small ensemble performance experience stressing the elements of good performance preparation: intonation, balance, blend, and tone production in a constant effort to increase musicality while surveying a wide range of repertoire in order to gain awareness of small ensemble performance techniques, and rehearsal skills. Groups are required to meet two hours each week: one hour for rehearsal as an ensemble and one hour with faculty for a coaching lesson. Public performances required. Repeatable up to 8 credits subject to graduation restrictions. **Prerequisite:** Instructor permission. **Corequisite:** MUSC 3310. **FA, SP**

**MUSC 4432**  Brass Chamber Music (1)

For brass musicians seeking a small ensemble performance experience stressing the elements of good performance preparation: intonation, balance, blend, and tone production in a constant effort to increase musicality while surveying a wide range of repertoire in order to gain awareness of small ensemble performance techniques, and rehearsal skills. Groups are required to meet two hours each week: one hour for rehearsal as an ensemble and one hour with faculty for a coaching lesson. Public performances required. Repeatable up to 8 credits subject to graduation restrictions. **Prerequisite:** Instructor permission. **Corequisite:** MUSC 3310. **FA, SP**

**MUSC 4433**  Piano Ensemble & Accompanying (1)

For pianists seeking experience in a small ensemble and in accompanying vocal and instrumental literature while learning basic repertoire, improving small ensemble performance, rehearsal skills, and sight-reading. Groups are required to meet two hours each week: one hour for rehearsal as an ensemble and one hour with faculty for a coaching lesson. Public performances required. Repeatable up to 8 credits subject to graduation restrictions. **Prerequisite:** Instructor permission. **Corequisite:** MUSC 3310. **FA, SP**

**MUSC 4485**  Percussion Ensemble (1)

For percussionists seeking a small ensemble performance experience stressing the elements of good performance preparation: intonation, balance, blend, and tone production in a constant effort to increase musicality while surveying a wide range of repertoire in order to gain awareness of small ensemble performance techniques, and rehearsal skills. Groups are required to meet two hours each week: one hour for rehearsal as an ensemble and one hour with faculty for a coaching lesson. Public performances required. Repeatable up to 8 credits subject to graduation restrictions. **Prerequisite:** Instructor permission. **Corequisite:** MUSC 3310. **FA, SP**

**MUSC 4538**  Orchestration (3)

The study of specific characteristics of all orchestral instruments in various combinations, ranging from small ensembles to full orchestra. **FA**

**MUSC 4610**  Prvt Lesson IV Major: Vocal (1)

Private vocal instruction for music majors. Participation in departmental recitals and a final jury examination is required. 50-minute lesson and one-hour performance class per week. Repeatable up to 2 credits subject to graduation restrictions. **Course fee required. Prerequisite:** MUSC 3810. **FA, SP**

**MUSC 4611**  Prvt Lesson IV Major: Piano (1)

Private piano instruction for music majors. Participation in departmental recitals and a final jury examination is required. 50-minute lesson and one-hour performance class per week. Repeatable up to 2 credits subject to graduation restrictions. **Course fee required. Prerequisite:** MUSC 3810. **FA, SP**

**MUSC 4612**  Prvt Lesson IV: Brass (1)

Private brass instruction for music majors. Participation in departmental recitals and a final jury examination is required. 50-minute lesson and one-hour performance class per week. Repeatable up to 2 credits subject to graduation restrictions. **Course fee required. Prerequisite:** MUSC 3810. **FA, SP**

**MUSC 4613**  Prvt Lesson IV: Strings (1)

Private string instruction for music majors. Participation in departmental recitals and a final jury examination is required. 50-minute lesson and one-hour performance class per week. Repeatable up to 2 credits subject to graduation restrictions. **Course fee required. Prerequisite:** MUSC 3813. **FA, SP**

**MUSC 4614**  Prvt Lesson IV Major: Woodwinds (1)

Private woodwind instruction for music majors. Participation in departmental recitals and a final jury examination is required. 50-minute lesson and one-hour performance class per week. Repeatable up to 2 credits subject to graduation restrictions. **Course fee required. Prerequisite:** MUSC 3814. **FA, SP**

**MUSC 4615**  Prvt Lesson IV Major: Guitar (1)

Private guitar instruction for music majors. Participation in departmental recitals and a final jury examination is required. 50-minute lesson and one-hour performance class per week. Repeatable up to 2 credits subject to graduation restrictions. **Course fee required. Prerequisite:** MUSC 3815. **FA, SP**
MUSC 4621 Prvt Lesson IV Major: Percussion (1)
Private percussion instruction for music majors. Participation in departmental recitals and a final jury examination is required. 50-minute lesson and one-hour performance class per week. Course fee required. **Prerequisite:** MUSC 3821. FA, SP

MUSC 4661 Vocal Pedagogy (2)
A survey of voice pedagogy, including the physics of singing, vocal anatomy and physiology, and their applications to singing as well as implications for teaching singing. Includes lecture, conventional and technology based demonstration, research assignments, written tests, and practical application. **FA** (odd years)

MUSC 4662 Vocal Literature (2)
A survey of western art music's solo vocal literature consisting of lecture, demonstration, research assignments, written tests, and oral reports in class in order to equip students to make educated and appropriate solo vocal literature selections. **SP** (even years)

MUSC 4665 Piano Literature I (2)
History of piano literature and performance practices from the Baroque period to the Classical period. **FA** (Odd years)

MUSC 4666 Piano Literature II (2)
History of piano literature and performance practices from the Romantic period to the present. **SP** (Even years)

MUSC 4700 Choral Music Methods (3)
Required of Music majors pursuing an emphasis in Music Education preparing to work with choral groups. Objectives include methods of organization, administration, and instruction relative to secondary choral music programs (grades 7 – 12) using small-group work, reflective essays, in-class participation, tests, out-of-class projects, and observation. **Prerequisite:** Instructor permission. **FA** (Even years)

MUSC 4710 Instrumental Music Methods (3)
Required of Music majors pursuing an emphasis in Music Education preparing to work with instrumental groups. Objectives include methods of organization, administration, and instruction relative to secondary instrumental music programs (grades 7 – 12) using small-group work, reflective essays, in-class participation, tests, out-of-class projects, and observation. **Prerequisite:** Instructor permission. **FA** (Even years)

MUSC 4890 Senior Recital (1)
Required of all Music majors. Applied instruction in preparation for and public performance of a 60 minute recital. Includes musical and extra-musical preparation. Successful completion should prepare students to perform publicly in a solo capacity. Requires Piano Proficiency Exam before enrolling. Requires prerequisite or corequisite 3000-level private music lesson. **Prerequisite:** Instructor permission. **FA, SP**

MUSC 4892 Independent Study (1 - 3)
This course is designed to meet the individual needs of advanced students in the Music Department who wish to pursue a specific focus of study related to their degree emphasis. Focus and/or research interest. Students work under close supervision by appropriate faculty in the design and successful completion of the course. The course is structured by a formal contractual arrangement with the faculty member that is submitted at the beginning of the semester in which that coursework is undertaken. Students are expected to meet with the faculty mentor each week and to provide the faculty member with progress reports and assignment development for feedback and grading purposes on an ongoing basis. Variable credit: 1.0 – 3.0. Repeatable up to 6 credits subject to credit restrictions. **Prerequisite:** Instructor permission.
F A '11
NURS 2250 Pediatric Nursing II (1)
Focuses on meeting complex needs of the pediatric client and family using critical thinking, therapeutic communication, technical skills, leadership/management skills, effective time management skills and the nursing process, while emphasizing professional behavior and caring, as well as the role of the registered nurse based on principles of health promotion, illness prevention, high risk illnesses and conditions likely to exist while working with children and their families in the acute care setting. Will not be taught after Fall 2011. Prerequisite: Admission to the Dixie State College Associate Degree in Nursing program. Corequisite: NURS 2250. FA '11

NURS 2260 Psychiatric Nursing II (1.5)
Building on concepts learned in NURS 1260, emphasizes understanding psychiatric disorders, diagnostic criteria, nursing interventions and other disciplines in care planning for the psychiatric client. Will not be taught after Fall 2011. Prerequisite: Admission to the Dixie State College Associate Degree in Nursing program. Corequisite: NURS 2260. FA '11

NURS 2300 Entry into Practice II (3.5)
Covers theory and clinical experiences designed to facilitate student transition into the role of the registered nurse. Focuses on synthesis and application of advanced nursing knowledge and skills. Will not be taught after Fall 2011. Course fee required. Prerequisite: Admission to the Dixie State College Associate Degree in Nursing program. FA '11

NURS 2400 Health & Illness Concepts I (6)
First semester course. Further develops health and illness concepts within the three domains of the client, healthcare, and nursing. Emphasis is placed on the concepts of acid-base, metabolism, cellular regulation, oxygenation, infection, stress and coping, health-wellness-illness, therapeutic communication, caring, technical skills, time management/organization, critical thinking, nursing process, health, quality improvement, and informatics. Includes classroom, lab, and clinical learning experiences. Course fee required. Prerequisite: Admission to the Dixie State College Associate Degree in Nursing program. FA '11

NURS 2450 Nursing Pharmacology Concepts I (1)
First semester course. Provides an introduction to concepts of pharmacology for nurses within the three domains of the client, healthcare, and nursing. Emphasis is placed on the concepts of metabolism, intracranial regulation, cellular regulation, perfusion, infection, immunity, mobility, comfort, behavior, health-wellness-illness, critical thinking, nursing process, caring, time management/organization, leadership/management, and safety. Includes application of pharmacological health and illness concepts in acute care settings. Includes classroom and clinical learning experiences. Course fee required. Prerequisite: Admission to the Dixie State College Associate Degree in Nursing program. FA '11

NURS 2500 Health & Illness Concepts II (9)
Second semester course. Further develops health and illness concepts within the three domains of the client, healthcare, and nursing. Emphasis is placed on the concepts of oxygenation, thermoregulation, sexuality, reproduction, infection, grief and loss, mood and affect, behavior, development, family, critical thinking, and nursing process. Includes classroom and clinical learning experiences. Course fee required. Prerequisite: Admission to the Dixie State College Associate Degree in Nursing program. FA '11

NURS 2530 Family Health Concepts (5)
Second semester course. Further develops health and illness concepts within the three domains of the client, healthcare, and nursing. Emphasis is placed on the concepts of oxygenation, thermoregulation, sexuality, reproduction, infection, grief and loss, mood and affect, behavior, development, family, critical thinking, and nursing process. Includes classroom and clinical learning experiences. Course fee required. Prerequisite: Admission to the Dixie State College Associate Degree in Nursing program. FA '11

NURS 2590 PN Transitions (1)
Third semester course. Further develops concepts within the three domains of the client, healthcare, and nursing. Emphasis is placed on health-wellness-illness, professional behaviors, caring, leadership/management, time management/organization, critical thinking, nursing process, safety, advocacy, legal issues, health policy, healthcare systems, ethics, accountability, and evidence-based practice. Course fee required. Prerequisite: Admission to the Dixie State College Associate Degree in Nursing program. SP '12, FA '12

NURS 2600 Health Care Systems (4)
Third semester course. Further develops concepts within the three domains of the client, healthcare, and nursing. Emphasis is placed on health-wellness-illness, professional behaviors, caring, leadership/management, time management/organization, critical thinking, nursing process, safety, advocacy, legal issues, health policy, healthcare systems, ethics, accountability, and evidence-based practice. Course fee required. Prerequisite: Admission to the Dixie State College Associate Degree in Nursing program. SP '12, FA '12

NURS 2700 Complex Health & Illness Concept (9)
Third semester course. Assimilates concepts within the three domains of the client, healthcare, and nursing. Emphasis is placed on the concepts of fluid and electrolytes, metabolism, thermoregulation, oxygenation, perfusion, tissue integrity, infection, mobility, stress and coping, family, violence, critical thinking, and the nursing process. Addresses application of complex health and illness concepts in nursing pharmacology. Includes classroom and clinical learning experiences. Course fee required. Prerequisite: Admission to the Dixie State College Associate Degree in Nursing program. SP '12, FA '12

NURS 3100 Professional Nursing Roles (2)
Focuses on the transition to professional nursing role and responsibilities and explores the differences in ADN and BSN education and practice levels by exploring the role of the BSN nurse in the health care environment, including nurse educator, nurse leader, case manager, and community health nurse. Prerequisite: Admission to the Dixie State College Bachelor of Science in Nursing program. FA

NURS 3200 Health Assessment (3)
Focuses on the development of interviewing and physical assessment skills throughout the lifespan utilizing a holistic approach and critical thinking skills to evaluate assessment findings, differentiate between normal and abnormal variations. Purchase of electronic access is required to navigate this online course. Prerequisites: Admission to the Dixie State College Bachelor of Science in Nursing program; BIOL 4400; and NURS 3100 (can be concurrently enrolled). SP

NURS 3300 Transcultural Nursing (3)
Prepares professional nursing students to provide culturally sensitive and culturally competent care to individuals, families, and communities, emphasizing the importance of understanding cultural diversity in order to promote appropriate health prevention, disease intervention activities, and teaching strategies. Includes self-evaluation, including biases and prejudices about other cultures and ethnic groups. Prerequisites: Admission to the Dixie State College Bachelor of Science in Nursing program; and NURS 3100 (can be concurrently enrolled). FA

NURS 3400 Nursing Informatics (3)
Introduces informatics in nursing practice, education, research, and administration, exploring how informatics systems can be utilized to assist in providing more efficient and effective client care, including hardware, software, databases, new developments and associated legal and ethical issues. Prerequisites: Admission to the Dixie State College Bachelor of Science in Nursing program; and NURS 3100. SP
COURSE DESCRIPTIONS

NURS 3600 Nursing Research (3)
Introduces quantitative and qualitative research concepts, methodology, and techniques, addressing the scientific approach; preliminary steps in research design, measurement, and data collection; analysis of data; and critiquing. Emphasizes the relationship between research and the practice of professional nursing. **Prerequisites:** MATH 1040 or STAT 2040; AND Admission to the Dixie State College Bachelor of Science in Nursing program; and NURS 3100. **SU**

NURS 3700 Gerontological Nursing (2)
Focuses on nursing care of the older adult by exposure to best practices for care of the older adult; issues such as quality of life, elder abuse, cultural considerations, and restraint alternatives; normal physiologic changes of aging; pathologic disease processes; cognitive and psychological changes; end-of-life care; and environments of care for the older adult. **Prerequisites:** Admission to the Dixie State College Bachelor of Science in Nursing program; and NURS 3100 (can be concurrently enrolled). **FA**

NURS 4020 Community Health Nursing (6)
Prepares the baccalaureate student to function within the scope of professional nursing practice in the care of individuals, families, and groups in the community with emphasis placed on family assessment, community assessment, health promotion, health maintenance, and disease prevention. Past, present and future community service trends are explored and analyzed. **Prerequisites:** Admission to the Dixie State College Bachelor of Science in Nursing program; and BIOL 4400 and NURS 3100; and NURS 3200. **Corequisites:** NURS 4025. **FA**

NURS 4025 Comm Health Nursing Clinical (0)
Clinical portion of NURS 4020. **Prerequisite:** Admission to the Dixie State College Bachelor of Science in Nursing program. **Corequisite:** NURS 4020. **FA**

NURS 4030 Nursing Policy & Ethics (3)
Addresses policy development, political influences and power, and nursing’s involvement in the policy-making process. Legislation past and present, as well as ethical theories, frameworks, and the process of ethical inquiry are examined, explored, and analyzed as a basis for professional nursing practice, education, research, and decision-making. **Prerequisites:** Admission to the Dixie State College Bachelor of Science in Nursing program; and NURS 3100 (can be concurrently enrolled). **SP**

NURS 4040 Nursing Leadership Management (5)
Explores the role of the professional nurse as a leader and manager of patient care by exploring strategies, processes, and techniques of the nurse leader and manager as well as theories and principles of leadership and management and their application to the professional nursing role. **Prerequisites:** Admission to the Dixie State College Bachelor of Science in Nursing program; and NURS 3100 (can be concurrently enrolled). **Corequisite:** NURS 4041. **FA**

NURS 4041 Nursing Leadership Mgmt Clinic (2)
Clinical portion of NURS 4040; allows the student to apply the theories and principles of leadership and management in the clinical setting and provides the opportunity to complete a leadership project within the student’s work setting. **Prerequisite:** Admission to the Dixie State College Bachelor of Science in Nursing program. **Corequisite:** NURS 4040. **FA**

NURS 4100 Senior Seminar (3)
Synthesizes previously learned knowledge and integrates the concepts of critical thinking, leadership and management, policy and ethics, cultural competence, and professional practice through the use of case studies, presentations, and written assignments. **Prerequisites:** Admission to the Dixie State College Bachelor of Science in Nursing program; and NURS 3100, NURS 3200, NURS 3300, NURS 3400, NURS 3600, NURS 4020, NURS 4025, NURS 4040, and NURS 4041. **SP**

NURS 4600 Senior Capstone (4 - 6)
Allows the student to select an area of interest and have an intensive experience focused on nursing leadership, research, and/or clinical practice. Student portfolios are used to design an individual learning experience in which students will integrate the role of the professional nurse with previous knowledge and experience. Students will meet the college requirement of 45 work hours per credit. **Prerequisites:** Admission to the Dixie State College Bachelor of Science in Nursing program; and NURS 3100, NURS 3200, NURS 3300, NURS 3400, NURS 3600, NURS 4020, NURS 4025, NURS 4040, and NURS 4041. **SP**

**NUTRITION & FOOD SCIENCE (NFS)**

NFS 1000 Breadmaking (1)
Open to students and interested in working with yeast and non-yeast breads. Techniques of basic bread making are taught through practical application. Some lecture, but the primary focus is on actual preparation and evaluation of bread dough products. Successful students should be able to troubleshoot problems and prepare a variety of breads. **Course fee required. FA, SP**

NFS 1020 Scientific Foundations of Nutrition (3)
Fulfills General Education 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. **FA, SP**

NFS 1030 Lifespan Fitness and Nutrition (2)
Open to all students with an interest in learning appropriate fitness and nutrition practices over the lifespan. Of special interest to athletes, and students studying nutrition or physical fitness. Basic nutrition and fitness concepts will be taught. Weight control, nutrition for the athlete, low fat and healthy cooking, and stress management will be emphasized. Includes lecture, Fitness Center activities, group work, dietary analysis, and food labs. Students will develop an individualized fitness and nutrition plan. **FA, SP**

NFS 1100 Basic Food Prep Techniques (3)
Open to all students with an interest in food preparation techniques and healthful nutrition practices for the lifespan, and recommended for students with an emphasis in Foods, Nutrition, or Family Consumer Science. Covers the principles and practices of food preparation, healthful food choices, consumer and health information and the management of meals, food, time, and economic resources. Includes preparation of food, lectures, group projects, and field trips. Successful completers should be able to use and apply a variety of food preparation and meal management techniques and nutrition concepts. Combined lecture / lab. **Course fee required. FA, SP**

NFS 1240 Culinary Arts (3)
This course is for students interested in learning fundamentals in the culinary arts. Intermediate skills will be taught as well as learning the production of international foods. This class is a combination of lecture, demonstration and preparing foods. **Course fee required. FA, SP**

NFS 2020 Nutrition and Food Science (3)
For students interested in nutrition or health sciences. Includes the application of nutrition principles to the human life cycle, nutrient function, needs sources and alterations during pregnancy, lactation, growth development, maturation and aging. Different types of nutritional assessment are taught using lecture,
labs, activities, guest lecturers and student projects. **Prerequisite:** NFS 1020. Offered based on sufficient student need.

**NFS 2120 Infant and Child Nutrition (3)**

For students interested in nutrition. Includes strategies for meeting the nutrient needs of infants, toddlers, preschool, and school-age children. Covers menu planning for children in day care and preschool settings and methods for teaching nutrition to children. Uses guest speakers, student presentations, lecture, observations, and group work. **Prerequisite:** NFS 1020. SP

**OPERATIONS MANAGEMENT (OPER)**

**OPER 1010 Quality Systems & Processes I (3)**

Required of students in the Operations Management program. Provides introductory knowledge of the use of quality systems and processes in manufacturing, including an overview of ISO 2008 and total quality management (TQM) systems. Covers standards in evaluating quality and reducing variance in manufacturing products while each student focuses on Six Sigma leadership and works toward Greenbelt Six Sigma status. Combined lecture with lab / and practicum. **Prerequisite:** Admission to Dixie State College Operations Management program. Offered in rotation in Operations Management program.

**OPER 1020 Safety & OSHA Compliance I (3)**

Required of students in the Operations Management program. Provides general knowledge of correct safety practices in the workplace, focusing on the characteristics of an effective safety culture, management commitment to safety, defining a value system, OSHA voluntary guidelines for safety management, management leadership and employee commitment to effective safety practices. Combined lecture with lab / and practicum. **Prerequisite:** Admission to Dixie State College Operations Management program. Offered in rotation in Operations Management program.

**OPER 2020 Safety & OSHA Compliance II (3)**

Required of student in the Operations Management program. Provides intermediate knowledge of quality systems and processes in manufacturing. Continues development of ISO 2008 and TQM systems, and further develops Six Sigma standards, focusing on attainment of Greenbelt Six Sigma status for each student. Combined lecture with lab / and practicum. **Prerequisite:** Admission to Dixie State College Operations Management program; AND OPER 1010. Offered in rotation in Operations Management program.

**OPER 2070 Leadership Supervision & Mgmt (3)**

Required of student in the Operations Management program. Provides focus on management leadership, including development of accountability, high performing organizations, customer oriented results, shared power, higher involvement, establishing a corporate vision, situational leadership, self-leadership, partnering for performance, and leading change. Combined lecture with lab / and practicum. **Prerequisite:** Admission to Dixie State College Operations Management program. Offered in rotation in Operations Management program.

**OPER 2080 Operations Management (3)**

Required of student in the Operations Management program. Provides intermediate level knowledge of managing operations in manufacturing, construction, and transportation. Includes developing an understanding of competitiveness, strategy, productivity, forecasting products, service design, reliability, decision theory, process selection, facility layout, linear programming, learning curves, supply chain management (SCM), inventory management, scheduling, and overall project management. Combined lecture with lab / and practicum. **Prerequisites:** Admission to Dixie State College Operations Management program; AND MAN 2010; AND MAN 2020. Offered in rotation in Operations Management program.

**OPER 3030 Management Law (3)**

Required of student in the Operations Management program. Survey of the legal environment for business managers, including dispute resolution, property crimes, fundamental principles of tort liability, government regulations of enterprises and individuals, contracts, and sales. Combined lecture with lab / and practicum. **Prerequisite:** Admission to Dixie State College Operations Management program. Offered based on sufficient student need.

**PHILOSOPHY (PHIL)**

**PHIL 1000 Intro to Philosophy (3)**

Fulfills a General Education Humanities requirement. Covers the general nature of philosophy, its origins, and its influences on human experience. Offers an introduction to philosophical theories of knowledge, truth, reality, being, science, politics, aesthetics, ethics, values, and religion. Includes examinations requiring essay and objective responses, quizzes, formal essays and informal written responses, participation in class discussions, and group presentations. FA, SP

**PHIL 1120 Social Ethics (3)**

Fulfills a General Education Humanities requirement. For all students interested in philosophy, moral values, and the application of ethics to social issues. Covers the historical development of Western value systems, including the contribution of classical and Hebraic traditions to current personal and political values. Students are also asked to apply ethical theories such as utilitarianism and Kantian formalism to social issues of our day, such as genetic engineering, business practices, world hunger, euthanasia, and war. FA, SP

**PHIL 1250 Reasoning & Rational Decisions (3)**

Fulfills a General Education Humanities requirement. Strengthens critical thinking skills through analyzing and evaluating arguments, a basic logical framework, Aristotelian logic, the principles of Charity and Socratic Humility, beginning logic of sentences, fallacies, probability, statistical reasoning, and other forms of inductive argument in order to train students to recognize, evaluate, and construct arguments. **Prerequisite:** ENGL 1010. FA

**PHIL 3510 Professional Ethics (3)**

Designed for business and other pre-professional students. Examination of selected ethical issues in business and technology, e.g., justice, corporate responsibility, preferential treatment, advertising practices, environmental responsibility, confidentiality and privacy, and government regulation. **Prerequisite:** Advanced Standing. Offered based on sufficient student need.

**PHLEBOTOMY (PHLB)**

**PHLB 1000 Phlebotomy (4)**

For students wishing to learn phlebotomy. Provides hands on training to become proficient in drawing and obtaining blood samples from a vein or capillary for laboratory analysis using Vacutainer, syringe, butterfly, and heel and finger stick. Instruction includes universal precautions and proper handling of specimens. Successful completion requires a number of “live sticks.” Course fee required. **Prerequisite:** Admission to the Dixie State College Phlebotomy
physical education, health, & recreation (pehr)

pehr 1001 freshmen exp/athletics & pehr (1)
A first year experience course designed to help students adapt to college life and become integrated into Dixie State College. Students will refine academic skills, create and foster social networks, learn about college resources, and explore different fields of study, degree options, and career opportunities. Sections offered by academic departments will include information pertinent to that discipline, while open major sections will include information about choosing a major or area of study. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1026). Students may only take one FYE course for credit. FA, SP

PEHR 1005 Health Education (2)
For students interested in up-to-date information about a variety of health topics. It teaches a health information framework to involve the student in activities related to various health issues. Involves lectures, oral reports and videos. The purpose of this course is to enable students to make sound health-related decisions. Not offered 2011-2012.

PEHR 1010 Aerobic Dynamics (1)
Activity class for students interested in learning the fundamentals of individual fitness. Emphasizes fitness through a variety of cardiovascular formats, muscle conditioning, and flexibility. FA, SP

PEHR 1020 Step Workout (1)
Activity course for students to learn a variety of ways to use a Reebok step for cardiovascular training as well as muscular conditioning. Designed to teach step aerobics as well as enhance fitness. FA, SP

PEHR 1057 Kundalini Yoga (1)
Activity course to introduce students to the movement, meditation, and breath work practices of Kundalini Yoga. Includes study from a text. Presents yoga practices as a technology teaching self-awareness and consciousness. FA, SP

PEHR 1058 Intermediate Kundalini Yoga (1)
Activity course for students interested in learning more advanced skills in the practices of Kundalini Yoga. FA, SP

PEHR 1067 Intro to Triathlon Training (1)
Activity course for students who wish to learn about multisport events and how to properly train and compete in a triathlon. Safe, fitness-oriented swimming, bicycling, and running skills will be taught. Students may supply their own bike, cycling helmet, and swim goggles. Lab fee required. SP

PEHR 1085 Weight Training (1)
Activity course for men and women students interested in learning the fundamentals of weight training. Includes instruction designed to build and strengthen the body. Students will receive supervised practice in various progressive resistance exercises and learn basics of weight training as well as improve their body strength. Course fee required. FA, SP

PEHR 1088 Fitness Center I (1)
Activity course designed for students who desire to begin and sustain a fitness program. Teaches students to manage a fitness program and pursue lifelong fitness goals. Dixie State College’s Fitness Center is equipped with the finest fitness equipment, including dozens of aerobic and strength machines, and it is staffed by trained fitness instructors. Students may receive complete fitness assessments and have one of the instructors help develop a personalized exercise program. Students must attend a general orientation at the beginning of the quarter. Thereafter, students use the fitness equipment at times that may be convenient to them to fulfill a required number of hours spent exercising. Repeatable up to 8 credits subject to graduation restrictions. Course fee required. FA, SP, SU

PEHR 1100 Beginning Tennis (1)
Activity course that provides instruction in the fundamentals of tennis, including basic stroke orientation, rules, and scoring in order to encourage further involvement in tennis. Students will learn tennis with the intent of developing a lifetime leisure and social activity that will give hours of enjoyment as a family, social, and/or competitive activity. FA, SP

PEHR 1101 Intermediate Tennis (1)
Activity course for students interested in expanded, more advanced skill development of strokes and strategy for both singles and doubles play in order to increase their interest in tennis and inspire continued involvement as a social outlet and recreational activity. FA, SP

PEHR 1110 Racquetball (1)
Activity course for students interested in learning the basics of racquetball, including instruction in serving, returning, and court strategy. Students will learn skills, rules, and proper etiquette as well as improving their skill levels in racquetball. Course fee required. FA, SP

PEHR 1111 Intermediate Racquetball (1)
Activity course for students interested in learning more skills in racquetball. Designed to improve student’s racquetball skill, as well as provide activity. Course fee required. FA, SP

PEHR 1130 Beginning Golf (1)
Activity course for students interested in learning the basics of golf, including instruction in the fundamentals of grip, stance, swing use of various clubs, as well as rules, etiquette, and scoring. Designed to give students playing time at the driving range and on the golf course as well as improving skill levels. Course fee required. SP

PEHR 1131 Intermediate Golf (1)
Activity course for students interested in learning more golf skills. Teaches fundamentals of grip, stance, swing, use of clubs, as well as rules, etiquette, and scoring. Actual practice at the golf course will include putting and driving. Designed to improve student’s golf skills, as well as provide activity. Course fee required. Prerequisite: PEHR 1130. SP

PEHR 1145 Bowling (1)
Activity course for students interested in learning the fundamentals of bowling, including instruction in the stance, approach, release and roll. Designed to give students playing time and gain knowledge of rules, scoring, and etiquette as well as improving skill levels. Course fee required. FA, SP

PEHR 1146 Intermediate Bowling (1)
Activity course for students interested in continued development of the fundamentals of bowling, including instruction in the stance, approach, release and roll. Designed to give students playing time and gain knowledge of rules, scoring, and etiquette as well as improving skill levels. Course fee required. FA, SP

PEHR 1200 Basketball (1)
Activity course for students interested in learning the basics of basketball, including skills such as dribbling, passing, shooting, and team offense and defense, as well as knowledge of the game. Designed to give students playing time, increase knowledge of basketball, and improve individual skill levels. FA, SP

PEHR 1201 Intermediate Basketball (1)
Activity course for female student-athletes who play intercollegiate volleyball. Designed to give students playing time, increase knowledge of volleyball, improve individual skill levels, and provide activity. FA, SP

PEHR 1210 Volleyball (1)

Activity course for students interested in learning the basics of volleyball, including instruction in the fundamentals of service, passing, setting, and spiking, as well as knowledge of the rules of volleyball. Designed to give students playing time, increase knowledge of volleyball, and improve individual skill levels. FA

PEHR 1211 Intermediate Volleyball (1)

Activity course for students interested in learning more skills in volleyball. Designed to give students playing time, increase knowledge of volleyball, improve individual skill levels, and provide activity. FA, SP

PEHR 1225 Softball (1)

Activity course for students interested in learning the basics of softball, including instruction in the fundamentals of play situations and rules of softball. Designed to give students playing time, increase knowledge of softball, and improve individual skill levels. Offered based on sufficient student need.

PEHR 1230 Soccer (1)

Activity course for students interested in learning the basics of soccer, including instruction in fundamental skills such as dribbling, heading, shooting, trapping, passing, and defensive knowledge of the game as well as improving their individual skill levels. FA

PEHR 1231 Intermediate Soccer (1)

Activity course for students interested in expanded, more advanced skill development of soccer. Designed to improve student’s soccer skills, as well as provide activity. FA

PEHR 1232 Men’s Soccer (1)

PEHR 1287 Intercollegiate Men’s Soccer (1)

Activity course for men student-athletes chosen to compete in intercollegiate men’s soccer. Only those selected for the team may enroll. Students will benefit from training under a professional coach and from the opportunity to participate in NCAA Division II sports. Repeatable up to 5 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA

PEHR 1288 Intercollegiate Women’s Cross Country (1)

Activity course for women student-athletes chosen to compete in intercollegiate cross country competition. Only those selected for the team may enroll. Students will benefit from training under a professional coach and from the opportunity to participate in NCAA Division II sports. Repeatable up to 5 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA

PEHR 1289 Intercollegiate Men’s Cross Country (1)

Activity course for men student-athletes chosen to compete in intercollegiate cross country competition. Only those selected for the team may enroll. Students will benefit from training under a professional coach and from the opportunity to participate in NCAA Division II sports. Repeatable up to 5 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA

PEHR 1290 Intercollegiate Men’s Football (1)

Activity course for men student-athletes chosen to compete in intercollegiate men’s football. Only those selected for the team may enroll. Students will benefit from training under a professional coach and from the opportunity to participate in NCAA Division II sports. Repeatable up to 5 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA

PEHR 1291 Intercollegiate Women’s Volleyball (1)

Activity course for female student-athletes who play intercollegiate volleyball.

Only those selected for the team may enroll. Students will benefit from training under a professional coach and from the opportunity to participate in NCAA Division II sports. Repeatable up to 5 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA

PEHR 1292 Intercollegiate Women’s Soccer (1)

Activity course for female student-athletes who play intercollegiate women’s soccer. Only those selected for the team may enroll. Students will benefit from training under a professional coach and from the opportunity to participate in NCAA Division II sports. Repeatable up to 5 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA

PEHR 1293 Intercollegiate Men’s Basketball (1)

Activity course for men student-athletes who play intercollegiate men’s basketball. Only those selected for the team may enroll. Students will benefit from training under a professional coach and from the opportunity to participate in NCAA Division II sports. Repeatable up to 5 credits subject to graduation restrictions. Prerequisite: Instructor permission. SP

PEHR 1294 Intercollegiate Women’s Basketball (1)

Activity course for women student-athletes who play intercollegiate women’s basketball. Only those selected for the team may enroll. Students will benefit from training under a professional coach and from the opportunity to participate in NCAA Division II sports. Repeatable up to 5 credits subject to graduation restrictions. Prerequisite: Instructor permission. SP

PEHR 1295 Intercollegiate Men’s Golf (1)

Activity course for men student-athletes who play intercollegiate men’s golf. Only those selected for the team may enroll. Students will benefit from training under a professional coach and from the opportunity to participate in NCAA Division II sports. Repeatable up to 5 credits subject to graduation restrictions. Prerequisite: Instructor permission. SP

PEHR 1296 Intercollegiate Men’s Baseball (1)

Activity course for men student-athletes who play intercollegiate men’s baseball. Only those selected for the team may enroll. Students will benefit from training under a professional coach and from the opportunity to participate in NCAA Division II sports. Repeatable up to 5 credits subject to graduation restrictions. Prerequisite: Instructor permission. SP

PEHR 1297 Intercollegiate Women’s Softball (1)

Activity course for women student-athletes who play intercollegiate women’s softball. Only those selected for the team may enroll. Students will benefit from training under a professional coach and from the opportunity to participate in NCAA Division II sports. Repeatable up to 5 credits subject to graduation restrictions. Prerequisite: Instructor permission. SP

PEHR 1298 Intercollegiate Women’s Tennis (1)

Activity course for women student-athletes who play intercollegiate women’s tennis. Only those selected for the team may enroll. Students will benefit from training under a professional coach and from the opportunity to participate in NCAA Division II sports. Repeatable up to 5 credits subject to graduation restrictions. Prerequisite: Instructor permission. SP

PEHR 1300 Beginning Swimming (1)

Activity course for students interested in swimming. Includes instruction and practice in the fundamental elements of swimming and water safety skills emphasizing the basic skills of floating, rhythmic breathing, gliding and kicking, and the forms of crawl stroke and elementary backstroke. Students will gain knowledge as well as improve their skill level in swimming. Course fee required. FA, SP

PEHR 1301 Intermediate Swimming (1)

Activity course designed for students interested in learning intermediate as-
COURSE DESCRIPTIONS

PEHR 1315 Water Aerobics (1)
Activity course designed to introduce aerobic conditioning principles in order to help the cardiovascular and respiratory systems, as well as increase strength and coordination. Course fee required. FA, SP

PEHR 1340 Lifeguarding (2)
Activity course for students interested in furthering their knowledge and skills in swimming and getting their lifeguard training. Instruction is given in water rescue, water safety and skills. This course includes the Red Cross Exam, and successful students will be Red Cross certified. Students must demonstrate proficiency in two basic strokes (American Crawl and breaststroke). Course fee required. FA, SP

PEHR 1350 SCUBA Diving (1)
For students interested in SCUBA diving. Includes lectures on underwater environment, diving skills, equipment, techniques, respiration, breathing air at depth, and safety procedures in scuba diving. Students will practice basic SCUBA diving techniques, SCUBA safety, and use of SCUBA equipment in a swimming pool and in strictly supervised open water dives. While students receive the Professional Association for Diving Instructors (PADI) open water scuba course, students must certify in scuba diving independently of this course. Course fee required. Corequisite: PEHR 1355. FA, SP

PEHR 1355 SCUBA Diving Lab (0)
Lab portion of PEHR 1350, for practice of basic SCUBA techniques, SCUBA safety, and use of SCUBA equipment in swimming pool and strictly supervised, limited open water dives. Lab fee required. Corequisite: PEHR 1350. FA, SP

PEHR 1410 Tai Chi (1)
An activity course in beginning Tai Chi, providing a foundation to Tai Chi philosophy and practice. Students will learn how to achieve optimum health and wellness, as well as the martial art applications of Tai Chi. The class will also focus on the history, philosophy and training of Tai Chi. FA, SP

PEHR 1450 Chinese Kung Fu (1)
Activity course designed for students of all fitness levels who are interested in developing more self-awareness, flexibility, physical conditioning, and power through the medium of Chinese martial arts. Examines the psychological and physiological response to conflict, and provides a foundation of techniques that will teach students how to operate in high-stress environments. Concepts are presented through lecture, active learning, and actual self-defense practice. FA, SP

PEHR 1510 Freshwater Fishing (1)
Activity course that uses nearby lakes and streams as a laboratory to teach the methods of freshwater angling as well as variety of related topics. The class alternates between field trips and classroom activities every other week. Topics include tackle, the various types of fishing techniques (fly, bait, spin-cast, baitcast, trolling, etc.), the laws and regulations, and safety, as well as etiquette. A required weekend trip during the semester is planned to more distant locations. Course fee required. FA

PEHR 1527 Introduction to Climbing (1)
Activity course is designed for all students, presenting introductory information on safety, equipment and its maintenance, and climbing technique, including rappelling, belaying, and sport climbing. Climbs will be conducted on and off campus at local venues. Course fee required. FA, SP

PEHR 1530 Primitive Survival Skills (1)
Activity course designed to allow students to learn the survival skills of primitive people. Included are topics related to fire, shelter, wild food gathering and preparation, clothing, travel, signaling, tools, hunting and fishing. Course includes classroom and outdoor laboratory activities, as well as a required weekend field trip. Course fee required. FA

PEHR 1535 Backpacking (1)
Activity course designed to allow students to learn about the basic principles, tools, skills, and equipment pertaining to a safe and enjoyable activity revolving around overnight backcountry foot-powered trips. Course includes classroom and outdoor laboratory activities, as well as a required weekend field trip. Course fee required. SP

PEHR 1540 Outdoor Recreation Survey (1)
Activity course to introduce students to the basic principles pertaining to the provision of safe and enjoyable outdoor recreation activities by learning about specific equipment, tools, skills, and techniques. Students will be exposed to health and safety topics pertaining to the outdoor environment. Course fee required. SP

PEHR 1543 First Aid / Resp Emergencies (3)
Designed for students desiring to learn about first aid, including instruction in the principles and practices in emergency care and first aid procedures for injuries and safety precautions. Successful completers will be certified through the American Red Cross in CPR and First Aid. FA, SP

PEHR 1545 Outdoor Cooking (1)
Activity course designed to allow students to learn the basic principles pertaining to the preparation of meals in the outdoors by studying specific equipment, tools, and techniques, including Dutch oven cooking, grilling, backpack cookery, and cooking for large groups. Course includes classroom and outdoor laboratory activities, as well as a required weekend field trip. Course fee required. FA, SP

PEHR 1550 Mountain Biking (1)
Activity course designed to present basic information on equipment purchase, maintenance, and repair of a mountain bike. Fitness programs and short trips are conducted in the local area with an extended tour planned by the group to conclude the semester. Student must supply own bicycle. FA, SP

PEHR 1551 Intermediate Mountain Biking (1)
Activity course that offers students the opportunity to further the skills learned in Beginning Mountain Biking. Students will discover some of the more advanced local mountain biking trails in our area, tackle more challenging terrain, learn to develop and use a training schedule, and do more in-depth maintenance on their bicycles. Instruction is provided on components, technical cycling skills, safety, conditioning, trip planning, maintenance and repair. Student must supply own bicycle. SP

PEHR 1575 Rodeo Rules & Conditioning (1)
Activity course designed for the rodeo athlete or the student who has an interest in rodeo. This course includes instruction in National Intercollegiate Rodeo Association Constitution By-Laws and Rules, with a focus on building skills needed for rodeo competition. Students will gain knowledge and a greater appreciation for rodeo as well as improve their individual skill level. Repeatable up to 4 credits subject to graduation restrictions. FA, SP

PEHR 1730 Adaptive PE (1)
Activity course designed to allow students to learn about the basic principles, tools, skills, and equipment pertaining to a safe and enjoyable activity revolving around overnight backcountry foot-powered trips. Course includes classroom and outdoor laboratory activities, as well as a required weekend field trip. Course fee required. SP

PEHR 1730 Adaptive PE (1)
Activity course for students physically disabled or unable for physical or medical reasons to participate in the regular physical education courses. Instructor will work give assignments according to the student’s individual abilities and needs. Schedule will be arranged by instructor. Repeatable up to 2 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP
PEHR 1790 Weight Training for Women (1)
Course designed for women interested in the fundamentals of weight training. Includes instruction designed to build and strengthen the body. In this activity class, students will receive supervised practice in various progressive resistance exercises. Students will learn the basics of weight training as well as improve their body strength. Course fee required. FA, SP

PEHR 1810 Athletic Community Engagement (1)
Provides outreach and partnership with faculty, students, and community in a mutually beneficial and respectful collaboration. Students will address community-identified needs, deepen civic learning, enhance community well-being, and enrich the scholarship of the institution through completing several service-learning activities. Students will learn organization and leadership skills. Students must participate in the class both fall and spring semesters. Class registration will be spring semester. Repeatable up to 4 credits subject to graduation restrictions. Prerequisite: Instructor permission. SP

PEHR 1850 Special Perf Cheerleading (1)
Activity course for students selected as Dixie State College Cheerleaders. Students will benefit from training under a professional coach and from the opportunity to participate in a variety of activities. Repeatable up to 5 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

PEHR 1860 Dixie Dance Team (1)
Activity course for students selected as members of the Dixie Dance Team. Students will benefit from training under a professional coach and from the opportunity to participate in a variety of activities. Repeatable up to 5 credits subject to graduation restrictions. Course fee required. Prerequisite: Instructor permission. FA, SP

PEHR 1970 PE Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. FA

PEHR 1971 PE Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. FA

PEHR 1972 PE Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

PEHR 2020 Exercise Science (2)
For students interested in working in the fitness industry as either a personal trainer or aerobics instructor. Covers basic human anatomy and physiology as it pertains to exercise, basic training principles in aerobics and strength training. Contains lecture and lab exercises. The course objective is to prepare students for the American Council of Exercise (ACE) certifying exam. Prior CPR certification is recommended. Prerequisite: PEHR 2040. FA, SP

PEHR 2040 Exercise Science/Fitness Train (1)
Lab portion of PEHR 2020. Prerequisite: PEHR 2020. FA, SP

PEHR 2060 Sports Performance & Behaviors (3)
Covers the theoretical and practical aspects of the psychological principles associated with participation, competition, and the endeavor for excellence in athletics and exercise. Includes effects of stress, visualization and relaxation techniques, focus, leadership, positive self-scripts, and goal setting. FA, SP

PEHR 2430 Basketball Officiating (1)
For students wishing to officiate in interscholastic, intramural, or community games. Teaches rules, officiating techniques, problems and procedures used in basketball. Uses lecture, media, guest lectures, and practical game situations. FA

PHYSICAL THERAPIST ASSISTANT (PTA)

PTA 1010 Intro to Physical Therapy (2)
Open to all students interested in physical therapy and rehabilitation medicine. Introduces the field and history of physical therapy, types of care and treatment, and its role in health care. Designed to assist students in making career decisions. SP

PTA 1020 Practice Issues (2)
First semester course. Reviews the “Guide to Physical Therapist Practice,” including the health care team, the rehabilitation-specific team, the roles and scopes of practice of the physical therapist and the physical therapist assistant, and the physical therapist/assistant interaction. Also covers the rehabilitation patient, communication in health care, patient care settings, reimbursement issues, the "Patient’s Bill of Rights," and HIPAA. Prerequisite: Admission to the Dixie State College Physical Therapist Assistant program. Offered in cohort rotation.

PTA - 2010 Kinesiology (2)
First semester course. Study of normal and abnormal movement of joints, extremities, and trunk, the relationship of movements to gait and postural patterns, and musculoskeletal and neuromuscular relationships and functions, including data collection skills and practice. Prerequisite: Admission to the Dixie State College Physical Therapist Assistant program. Offered in cohort rotation.

PTA - 2011 Kinesiology Lab (2)
First semester course. Lab portion of PTA 2010 in which students develop competencies identifying anatomical landmarks and symmetry, joint mechanics and function, posture, an introduction to gait, measuring and data collection techniques, and neurological control. Lab fee required. Prerequisite: Admission to the Dixie State College Physical Therapist Assistant program. Offered in cohort rotation.

PTA 2110 Fundamentals Physical Therapy (2)
First semester course. Fundamental skills for patient treatment and care, including patient draping and preparation, bed mobility, transfers, gait training, wheelchair fitting, tilt table, activities of daily living, architectural barriers, documentation, basic skills for patient/family education, safety, cultural and gender sensitivity, and age-related considerations. Prerequisite: Admission to the Dixie State College Physical Therapist Assistant program. Offered in cohort rotation.

PTA 2111 Fundamentals Phys Therapy Lab (2)
COURSE DESCRIPTIONS

First semester course. Lab portion of PTA 2110. Lab fee required. **Prerequisite:** Admission to the Dixie State College Physical Therapist Assistant program. *Offered in cohort rotation.*

**PTA 2200** Physical Agents (2)

Second semester course. Efficacy and use of therapeutic modalities including heat, cold, electrotherapy, intermittent compression, massage, traction, ultrasound, and others. Evidence-based practice, safety, cultural / gender sensitivity, and indications/contraindications are emphasized. **Prerequisite:** Admission to the Dixie State College Physical Therapist Assistant program. *Offered in cohort rotation.*

**PTA 2201** Physical Agents Lab (2)

Second semester course. Lab portion of PTA 2200. Lab fee required. **Prerequisite:** Admission to the Dixie State College Physical Therapist Assistant program. *Offered in cohort rotation.*

**PTA 2210** Observation & Measurement (2)

Second semester course. Covers bases for and physical therapist assistant’s role in recognizing movement and other dysfunctions. Competency is gained in the use of tools for data collection and problem solving, including goniometry, manual muscle testing, posture, vital signs, sensation, gait and balance, etc. Emphasizes patient progress and accurate reporting. **Prerequisite:** Admission to the Dixie State College Physical Therapist Assistant program. *Offered in cohort rotation.*

**PTA 2211** Observation & Measurement Lab (2)

Second semester course. Lab portion of PTA 2210. Lab fee required. **Prerequisite:** Admission to the Dixie State College Physical Therapist Assistant program. *Offered in cohort rotation.*

**PTA 2300** Orthopedic Rehabilitation (2)

Second semester course. Emphasizes development of therapeutic exercise and other treatment practices for patients with musculoskeletal pathologies with special attention toward cultural / gender / age sensitivities. **Prerequisite:** Admission to the Dixie State College Physical Therapist Assistant program. *Offered in cohort rotation.*

**PTA 2301** Orthopedic Rehabilitation Lab (2)

Second semester course. Lab portion of PTA 2300. Lab fee required. **Prerequisite:** Admission to the Dixie State College Physical Therapist Assistant program. *Offered in cohort rotation.*

**PTA 2400** Clinical Pathology (2)

Second semester course. Overview of basic disease progression and classification with special emphasis in musculoskeletal and nervous system pathologies treated with physical therapy interventions. **Prerequisite:** Admission to the Dixie State College Physical Therapist Assistant program. *Offered in cohort rotation.*

**PTA 2410** Special Clientele (2)

Fourth semester course. Introduction to Therapeutic principles underlying the treatment of patients with amputations, cardiopulmonary pathologies and considerations, women’s health issues, and selected age-specific disorders. **Prerequisite:** Admission to the Dixie State College Physical Therapist Assistant program. *Offered in cohort rotation.*

**PTA 2411** Special Clientele Lab (1)

Fourth semester course. Lab portion of PTA 2410. Lab fee required. **Prerequisite:** Admission to the Dixie State College Physical Therapist Assistant program. *Offered in cohort rotation.*

**PTA 2520** Neumuscular Rehabilitation (2)

Fourth semester course. Covers patients with neurological pathologies and their physical therapy treatment, modifications, best practices, and current concepts. Age-related, injury, cultural and gender differences, and disease processes are considered. **Prerequisite:** Admission to the Dixie State College Physical Therapist Assistant program. *Offered in cohort rotation.*

**PTA 2521** Neuromuscular Rehab Lab (2)

Fourth semester course. Lab portion of PTA 2520. Lab fee required. **Prerequisite:** Admission to the Dixie State College Physical Therapist Assistant program. *Offered in cohort rotation.*

**PTA 2530** Seminar (4)

Fourth semester course. Introduction to effective administration of physical therapy environments, including management techniques, fiscal considerations, continuous quality assurance, voluntary accrediting agencies, and other relevant topics related to the business and delivery of physical therapy care. **Prerequisite:** Admission to the Dixie State College Physical Therapist Assistant program. *Offered in cohort rotation.*

**PTA 2605** Clinical Practicum (4)

Third semester (summer) course. Three-week, full-time (40 hours per week) clinical experience in a physical therapy workplace setting. Clinical assignments are at the discretion of the PTA Academic Coordinator of Clinical Education. Supervision, instruction, and evaluation is provided by physical therapists and physical therapist assistants at the host facility. 120 total hours required. Course fee required. **Prerequisite:** Admission to the Dixie State College Physical Therapist Assistant program. *SU*

**PTA 2705** Clinical Affiliation I (6)

Fifth semester course. Five-week, full-time (40 hours per week), instructor supervised clinical experience, which may include musculoskeletal, neurological, pediatric, geriatric, or other type(s) of physical therapy care, in acute care, acute rehabilitation, long-term rehabilitation, outpatient, or other clinical environment(s) as assigned by the Program’s Academic Coordinator of Clinical Education. 200 total hours required. Course fee required. **Prerequisite:** Admission to the Dixie State College Physical Therapist Assistant program. *Offered in cohort rotation.*

**PTA 2805** Clinical Affiliation II (6)

Fifth semester course. A second, five-week, full-time (40 hours per week), instructor supervised clinical experience, which may include musculoskeletal, neurological, pediatric, geriatric, or other type(s) of physical therapy care, in an acute care, acute rehabilitation, long-term rehabilitation, outpatient, or other clinical environment(s) different than in PTA 2705 and with a different instructor, as assigned by the Program’s Academic Coordinator of Clinical Education. 200 total hours required. Course fee required. **Prerequisite:** Admission to the Dixie State College Physical Therapist Assistant program. *Offered in cohort rotation.*

**PHYSICS (PHYS)**

**PHYS 1010** Elementary Physics (3)

Fulfills General Education Physical Science requirement 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. PHYS 1015 lab course recommended but not required. **Prerequisite:** Math Placement score 23 OR MATH 1010 (Grade C or higher) within 2 years prior to enrollment in PHYS 1010. *FA, SP, SU*

**PHYS 1015** Elementary Physics Lab (1)

Lab portion of PHYS 1015. Lab fee required. **Corequisite:** PHYS 1010. *FA, SP, SU*
PHYS 1040 Elementary Astronomy (3)
Fulfills General Education Physical Science requirement. A general study of the solar system, including telescope sessions for identification of planets, stars, constellations and galaxies in order to understand concepts space and its contents. Corequisite: PHYS 1045. FA, SP

PHYS 1045 Elementary Astronomy Lab (1)
Lab portion of PHYS 1040. Lab fee required. Corequisite: PHYS 1040. FA, SP

PHYS 1360 Principles of Physical Science (3)
Fulfills General Education Physical Science requirement. An interdisciplinary course covering selected topics in physics, chemistry and geology. Provides an introduction to the scientific method and its application. Strongly recommended for Elementary Education majors, and open to all students. Corequisite: PHYS 1365. FA, SP

PHYS 1365 Principles of Phys Science Lab (3)
Lab portion of PHYS 1360. One local 6-hour field trip required. Lab fee required. Corequisite: PHYS 1360. FA, SP

PHYS 2010 College Physics I (4)
Fulfills General Education Physical Science requirement for students majoring in some Science programs, and pre-Medical, pre-Dental, and other pre-professional programs. Covers the basics of mechanics, heat, and sound. First course in a two-semester sequence required for further study in science fields. Prerequisite: MATH 1060 or MATH 1065. Corequisite: PHYS 2015. FA

PHYS 2015 College Physics I Lab (1)
Lab portion of PHYS 2010. Lab fee required. Corequisite: PHYS 2010. FA

PHYS 2020 College Physics II (4)
Second course in a two-semester sequence required for further study in science fields for students majoring in some Science programs, and pre-Medical, pre-Dental, and other pre-professional programs. Covers the basics of electricity, magnetism, light, and modern physics. Uses lecturers, videos, and demonstrations. Prerequisite: PHYS 2010. Corequisite: PHYS 2025. SP

PHYS 2025 College Physics II Lab (1)
Lab portion of PHYS 2025. Lab fee required. Corequisite: PHYS 2020. SP

PHYS 2210 Physics/Scientists Engineers I (4)
Fulfills General Education Physical Science requirement for students majoring in physical science, engineering, and some biological/plant sciences. First course in an intensive two-semester sequence. Covers basic principles of physics, emphasizing mechanics with the objective of developing students’ capacities to analyze problems in physics and to express solutions in mathematical form utilizing mathematics up to and including calculus. Successful completion satisfies prerequisite for ENGR 2000. Prerequisite: MATH 1210 or MATH 1220 (can be concurrently enrolled in MATH 1220). Corequisite: PHYS 2215. FA

PHYS 2215 Phys/Scientists Engineer I Lab (1)
Lab portion of PHYS 2210. Lab fee required. Corequisite: PHYS 2210. FA

PHYS 2220 Physics/Scientists Engineers II (4)
Second course in a two-semester sequence required for students majoring in physical science, engineering, and some biological/plant sciences. Covers basic principles of physics, emphasizing electricity and magnetism; optics, and relativity with the objective of developing students’ capacities to analyze problems in physics and to express solutions in mathematical form utilizing mathematics up to and including calculus. Successful completion of this series satisfies Physics requirements for Physical Science and Engineering. Prerequisite: MATH 1220, and PHYS 2210. Corequisite: PHYS 2225. SP

PHYS 2225 Phys/Scientists Engr II Lab (1)
Lab portion of PHYS 2225. Lab fee required. Prerequisite: PHYS 2215. Corequisite: PHYS 2220. SP

PHYS 2710 Introductory Modern Physics (3)
For students majoring in Physics and some Engineering fields, also recommended for Chemistry and other Science majors. Includes relativity; wave-particle duality; and an introduction to quantum physics, atomic physics, and nuclear physics. Prerequisites: MATH 2280; and PHYS 2220/2225. SP

PLACEMENT BOOT CAMP (PBC)
PBC 0700 Math for Placement A (1)
Designed for students wishing to place into MATH 0990: a brief review of basic math, algebra, and intermediate algebra skills to prepare for a placement exam, or for students who have taken MATH 0920 but did not earn a grade of C or higher and wish to take a placement exam. Students will take a series of diagnostic exams at the beginning of the course to determine the types of modules they will work on during the course. Students will enroll in a 6-week module for 1 credit. Students are expected to work up to 7 1/2 hours per week on the course materials. Hybrid course: Most material will be delivered electronically, but students will need to attend face-to-face, 1-hour weekly instructor facilitated lab. Students may enroll in additional 6-week modules as necessary. Repeatable up to 3 credits. Prerequisite: Instructor permission. FA, SP, SU

PBC 0800 Math for Placement I (1)
Designed for students wishing to place into MATH 1010: a brief review of basic math, algebra, and intermediate algebra skills to prepare for a placement exam, or for students who have taken MATH 0990 but did not earn a grade of C or higher and wish to take a placement exam. The course will be delivered electronically. Students will take a series of diagnostic exams at the beginning of the course to determine the types of modules they will work on during the course. Students will enroll in a 6-week module for 1 credit. Students are expected to work up to 7 1/2 hours per week on the course materials. Students may enroll in additional 6-week modules as necessary. Hybrid course: Most material will be delivered electronically, but students must attend face-to-face, 1-hour, instructor-facilitated lab each week. Repeatable up to 3 credits. FA, SP, SU

PBC 1000 Math for Placement II (1)
Designed for students wishing to place into MATH 1030, 1040, or 1050: a brief review of basic math, algebra, and intermediate algebra skills to prepare for a placement exam, or for students who have taken MATH 1010 but did not earn a grade of C or higher and wish to take a placement exam. The course will be delivered electronically. Students will take a series of diagnostic exams at the beginning of the course to determine the types of modules they will work on during the course. Students will enroll in a 6-week module for 1 credit. Students are expected to work up to 7 1/2 hours per week on the course materials. Students may enroll in additional 6-week modules as necessary. Hybrid course: Most material will be delivered electronically, but students must attend face-to-face, 1-hour, instructor-facilitated lab each week. Repeatable up to 3 credits subject to graduation restrictions. FA, SP, SU

POLITICAL SCIENCE (POLS)
POLS 1100 American Government (3)
Fulfills the General Education American Institutions (Utah State Code R470) requirement. 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: Reading placement score 17 or higher, or ENGL 1470. FA, SP, SU

POLS 1800 Poli Sci Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. FA

POLS 1810 Poli Sci Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

POLS 1820 Poli Sci Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SU

POLS 2100 Intro International Relations (3)
Partially fulfills General Education Global & Cultural Perspectives requirement. Examines the military, economic, social, and political interactions between nations, including how realist, liberal, and idealist theories describe and explain the causes of war and peace; the issues concerning trade and globalization, the content and purpose of international law, and the importance of international institutions such as the United Nations and the European Union. Students will read widely and write analytically to gain a deep understanding of these theories and issues. Prerequisite: POLS 1100. FA ’11

POLS 2200 Intro to Comparative Politics (3)
Partially fulfills General Education Global & Cultural Perspectives requirement. Examines political activities within individual countries by looking at the politics of a diverse set of nations such as the United States, England, Russia, China, Japan, Mexico, Iran, Nigeria, etc., in order to compare the political institutions and patterns in one country with those in other countries. The focus is on each country’s internal politics, with a view to making generalizations about how politics work in a variety of national settings. This will allow students to understand many democratic styles and how democratic politics compares with the politics in authoritarian governments. Students will read widely and write comparatively about various government structures in various countries. Prerequisite: POLS 1100. SP ’12

POLS 2300 Intro to Political Theory (3)
For students interested in politics or planning to major in political science. Examines the ideas about government from Plato to John Rawls, including Aristotle, Augustine, Aquinas, Machiavelli, Hobbs, Locke, Montesquieu, Rousseau, Hume, Burke, Kant, Mill, and Marx. Covers ideas about the relationship between those who govern and those who are governed; about the nature of the good life and the role of government in achieving it; about ideas of how those who govern are to be chosen; about the necessity of limits, if any, on those who govern; and about the correct balance between freedom for the individual and the authority of the state. Students will read from the works of the great political thinkers and write criticisms and comparisons of those thinkers’ ideas. Prerequisite: POLS 1100. FA ’12

POLS 3030 State and Local Government (3)
Surveys the politics, structure, and activities of state and local governments, including intergovernmental relations, legal and theoretical concerns, political processes, and administrative issues, with special attention given to the Utah experience. Prerequisite: POLS 1100. Offered based on sufficient student need.

POLS 4400 Introduction to Islam (3)
Introduces students to the history, politics, and culture of Islam in order to increase the understanding of the contemporary dimension of this world religion. Dual listed with POLS 4400; students may receive credit for only one course. Offered upon sufficient student need.

PSYCHOLOGY (PSY)

PSY 1001 Orientation/ Psychology & Soc Sci (1)
For students interested in the Social and Behavioral Sciences (Psychology, Sociology, Anthropology, Archeology, Ethnic Studies, Gender Studies, and Political Science). This course is designed to help students set the conditions to maximize their college experience. In particular, this course will help students understand and adapt to college life and expectations, refine college level skills and abilities, create and foster social networks, and introduce them to different fields of study, degree options, and career opportunities within the Social and Behavioral Sciences. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1026). Students may only take one FYE course for credit. FA

PSY 1010 General Psychology (3)
Fulfills General Education Social and Behavioral Sciences requirement. 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. FA, SP, SU

PSY 1100 Human Dev through Lifespan (3)
Fulfills General Education Social and Behavioral Sciences requirement. 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. FA, SP, SU

PSY 1210 Psychology of Personal Growth (3)
For all students who have a desire to increase self-awareness, understanding, and personal growth. Includes information on social influences, stress, health issues, communication, relationships, and challenges associated with marriage, child rearing, work, and aging. Uses textbook readings, group discussions, and journal writing to explore past and present decisions and to make future choices to promote personal growth toward self-actualization and fulfillment. Completion of PSY 1010 is recommended before enrolling in this course. Recommended prerequisite: PSY 1010 SP

PSY 1800 Psychology Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community.
Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. FA

PSY 1810 Psychology Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

PSY 1820 Psychology Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SU

PSY 2000 Writing in Psych: APA Style (3)
Required of psychology majors and recommended for students in all disciplines interested in understanding and more effectively using APA writing style. An introduction to the effective use and application of APA style for research projects, technical papers, and expository writing in the psychological and behavioral sciences. Prerequisites: PSY 1010; and ENGL 1010. FA, SP

PSY 2430 Stress Management (3)
For students of all disciplines who wish to expand their understanding of the stress response. Sources of stress, physiological and psychological responses to stress and other components of stress will be investigated. Students will be given relaxation training through several alternative approaches. Includes examinations from the text, completion of self-appraisals, and self-exploration through written exercises. FA

PSY 2480 Substance Abuse: Prevention (3)
For students of all disciplines wishing to expand their awareness of the effects of drugs on the human body, to learn more about local, state, and federal laws regulating the use of drugs and alcohol, to become acquainted with information which identifies and describes characteristics of users, and to recognize healthy lifestyles as a viable alternative to substance abuse. Course requires reading, in-class oral presentation, and examinations from the textbook. SP

PSY 2800 Human Sexuality (3)
Provides a basic understanding of the academic and scientific study of human sexuality. Human sexuality is examined from multiple perspectives, ranging from the biological through psychological, as well as cultural, medical, ethical and legal issues. The course is intended to provide an in-depth, college-level understanding of the foundations of human sexuality. Offered based on sufficient student need.

PSY 3000 Statistical Methods/Psychology (4)
Required of Psychology majors. An introduction to and application of statistical methods in psychological research. Students will design and measure psychological constructs, select, compute, and interpret descriptive and inferential statistics, use computer technology to facilitate statistical analyses, accurately represent the results of statistical analyses, and critically analyze methodological and statistical arguments. Combined lecture / lab. Prerequisites: PSY 1010; and MATH 1040; AND Psychology Major, or Integrated Studies Emphasis in Psychology major, or instructor permission. FA, SP

PSY 3010 Research Methods in Psychology (4)
Required of Psychology majors. An introduction to the research process; deductive and inductive reasoning in science, the nature of theory, hypothesis testing and the use of empirical data; scientific knowledge and its applications. Naturalistic, case study, correlation, and experimental research methods in Psychology will be examined. Combined lecture / lab. Prerequisites: PSY 2000; AND PSY 3000; AND Psychology Major, or Integrated Studies Emphasis in Psychology major, or instructor permission. FA, SP

PSY 3120 Cognitive Psychology (3)
Fulfills Biological/Cognitive Psychology requirement for Psychology majors. Introduction to basic principles of human and non-human cognition. Topics include perception, categorization, attention, memory, knowledge representation, judgment and decision making, and problem solving. Prerequisites: PSY 1010; AND Psychology major or Integrated Studies Emphasis in Psychology major; or instructor permission. SP

PSY 3200 Dvlpmnt in Infancy & Childhood (3)
Fulfills Social/Developmental Psychology requirement for Psychology majors. Covers the theories and research on prenatal development, pregnancy and birth, infants’ sensory and motor capabilities, brain development, attachment, children’s understanding of their physical and social world, pretense and theory of mind, language and reasoning, self-concept, parent-child and peer relations, self-control and morality. Biological, cognitive and social-cultural perspectives will be considered. Prerequisites: PSY 1100 or FCS 1500; AND Psychology major or Integrated Studies Emphasis in Psychology major; or instructor permission. FA

PSY 3220 Adolescence & Emerging Adult (3)
Fulfills Social/Developmental Psychology requirement for Psychology majors. Provides a basic understanding of key developmental transitions during adolescence and emerging adulthood (e.g., biological, cognitive, social and emotional), some of the contexts in which these transitions are situated (e.g., family, school, culture) and how these transitions and contexts might interact with one another. Prerequisites: PSY 1100 or FCS 1500; AND Psychology major or Integrated Studies Emphasis in Psychology major; or instructor permission. SP

PSY 3230 Adult Development & Aging (3)
Fulfills Social/Developmental Psychology requirement for Psychology majors. The study of adult lives from a life-span perspective. Some of the contexts in which these transitions are situated (e.g., family, school, culture) and how these transitions and contexts might interact with one another. Prerequisites: PSY 1100 or FCS 1500; AND Psychology major or Integrated Studies Emphasis in Psychology major; or instructor permission. SP

PSY 3400 Psych of Abnormal Behavior (3)
Fulfills Clinical/Applied Psychology requirement for Psychology majors. An advanced course for students of all disciplines who wish to study the nature of mental disorders. Particularly important for students majoring in psychology, criminal justice, or education. Course will cover DSM-IV diagnostic categories with descriptive information concerning etiology, symptomatology and therapeutic strategies. Requires college reading level skills and will require library research. Prerequisites: Psychology 1010; AND Psychology major or Integrated Studies Emphasis in Psychology major; or instructor permission. FA

PSY 3410 Social Psychology (3)
Fulfills Social/Developmental Psychology requirement for Psychology majors. The scientific study of how individuals’ thoughts, feelings, and behaviors are influenced by other people. Topic areas include identity, social perception, at-
to examine issues related to the mind/brain. This course covers such topics as cognitive neuroscience uses neuroimaging techniques such as PET and fMRI.

PSY 3440 Child & Family Mental Health (3)
Provides a basic understanding of the emerging field of family mental health. Family mental health considers parent and child development (biological, cognitive, social and emotional), family relationships and family functioning. The course will include an introduction to observation, screening and assessment, diagnosis and intervention and interdisciplinary / multidisciplinary collaboration in the field of family mental health. Prerequisites: PSY 1100 or FCS 1500; AND Psychology major or Integrated Studies Emphasis in Psychology major; or instructor permission. SP

PSY 3460 Health Psychology (3)
Examines the relationship between psychosocial factors and health and provides a broad overview using the basic concepts, theories, methods, and applications of health psychology. Course will critically examine state-of-the-art research as well as current gaps in knowledge to explore topics including: definitions and vice-versa, patient-practitioner relations, and health promotion. Emphasis will be placed on the ways psychological factors interact with the social, cultural, economic, and environmental contexts of health. Prerequisites: PSY 1010; AND Psychology major or Integrated Studies Emphasis in Psychology major; or instructor permission. SP (Odd years)

PSY 3700 Personality Theory (3)
Fulfills Social/Developmental Psychology requirement for Psychology majors. Offers students the opportunity for expanded self-understanding and understanding of others based on established personality theories. Primary focus is on presentation and discussion of diverse theoretical views of personality and personally development. Prerequisites: PSY 1010; AND Psychology major or Integrated Studies Emphasis in Psychology major; or instructor permission. SP

PSY 3710 Behavioral Neuroscience (3)
Fulfills Biological/Cognitive Psychology requirement for Psychology majors. Introduction to how the structure and function of the brain and the nervous system relate to specific psychological processes and overt behaviors including cognitive functions, sensory and motor systems, emotions, regulatory behaviors, reproductive behaviors, and psychopathology. Completion of PSY 3000 and 3010 is recommended before enrolling in this course. Prerequisites: BIOL 1010 or BIOL 1610; AND PSY 1010; AND Psychology major or Integrated Studies Emphasis in Psychology major; or instructor permission. FA

PSY 4000 History of Psychology (3)
Required of Psychology majors. An examination of the philosophical issues that have troubled psychology as a science, such as determinism and free will, conscious and unconscious processed, the possibility and efficacy of self-knowledge, behaviorism vs. mentalism, and the relation of mind and brain. Prerequisites: PSY 1010; and Senior standing; AND Psychology major or Integrated Studies Emphasis in Psychology major; or instructor permission. FA

PSY 4130 Interpersonal Neuroscience (3)
Fulfills Biological/Cognitive Psychology requirement for Psychology majors. Introduction to theoretical perspective in interpersonal neuroscience employed in developmental psychology and in the study of interpersonal experiences. This course will also explore the neural mechanisms of emotion, personality and mood as they relate to interpersonal interaction. Prerequisites: PSY 3200; and PSY 3410; and Psychology major or Integrated Studies Emphasis in Psychology major; or instructor permission. FA (Odd years)

PSY 4140 Cognitive Neuroscience (3)
Fulfills Biological/Cognitive Psychology requirement for Psychology majors. Cognitive neuroscience uses neuroimaging techniques such as PET and fMRI to examine issues related to the mind/brain. This course covers such topics as perception and encoding, cerebral lateralization and specialization, the control of action, executive function, and the problem of consciousness. Completion of PSY 3120 is recommended before enrolling in this course. Prerequisites: PSY 1010; AND Psychology major or Integrated Studies Emphasis in Psychology major; or instructor permission. SP (even years)

PSY 4150 Sensation & Perception (3)
Fulfills Biological/Cognitive Psychology requirement for Psychology majors. The anatomical and physiological bases of sensation will be reviewed. Moreover, traditional and contemporary theories of perception will be critically considered. How we see, hear, feel pain and temperature, and in general receive information from the environment; how our perceptions are affected by expectancy, knowledge, and higher-level organizational factors. Students will be expected to master basic concepts of sensory and perceptual function. Prerequisite: PSY 3120; AND Psychology major or Integrated Studies Emphasis in Psychology major; or instructor permission. FA

PSY 4200 Psychology of Morality (3)
Reviews recent and ongoing theory and research to explore how and why morality influences our judgments and actions with a specific emphasis on the relative roles of evolved emotions and of principled reasoning in moral processes. This course will incorporate evidence and argument from the fields of evolutionary biology, philosophy, anthropology, social neuroscience, and social psychology to explore the effects of moral thinking and feeling on topics such as economic and legal decision making, political affiliation, helping behavior, aggression and social deviance. Prerequisite: PSY 1010; and Advanced standing. SP (even years)

PSY 4300 Intro Counseling/Psychotherapy (4)
Designed to familiarize students with theories of counseling and psychotherapy with an emphasis on the major models within the field. Theories will be critically evaluated, contrasted, and applied to a range of psychological problems and diverse populations. Students will also explore the historical background and developmental precipitants of each theory as well as the multicultural strengths and weaknesses of each counseling approach. Opportunity is provided to practice and refine counseling skills. Highly recommended for students interested in pursuing a counseling related profession. Combined lecture/lab. Prerequisites: PSY 3400; and Advanced standing; AND Psychology major or Integrated Studies Emphasis in Psychology major; or instructor permission. FA

PSY 4440 Addiction (3)
Provides students with the opportunity to explore the many issues related to the various forms and processes of addiction, focusing on etiology, assessment, treatment, and legal issues with regard to addiction. Students will also have the opportunity to learn about social and community resources designed to aid recovery. Prerequisite: PSY 3400 or PSY 3460. SP (even years)

PSY 4860 Psychology Practicum (1)
Students work in local or regional agencies or institutions by observing or participating in professional activities under appropriate supervision. Repeatable up to 3 credits subject to graduation restrictions. Prerequisite: Instructor Permission. FA, SP, SU

PSY 4910 Capstone Research: Psychology (3)
Fulfills Psychology Capstone requirement. Requires consolidation of information, skills, and knowledge learned throughout students' undergraduate studies, particularly in the Psychology Core and research areas, to conduct independent research to further develop their understanding of Psychology as a science. Prerequisite: Psychology major; and Senior standing. FA, SP

PSY 4920 Capstone Seminar in Psychology (3)
Fulfills Psychology Capstone requirement. Requires that students write an APA-style review paper about an area of Psychology in which they have an occupational interest, engage in a collaborative research project, and create a...
Dixie State College Respiratory Therapy program. Admission to the program requires a background in respiratory pharmacology and devices used to administer and monitor aerosolized medications. Lab fee required. 

Prerequisite: Admission to the Dixie State College Respiratory Therapy program. Offered in cohort rotation.

RESP 2050 Intro Resp Care Pharmacology (3)
First semester course. Introduction to principles of pharmacology associated with genetic traits or abnormalities and carcinogenesis are also included. 

Prerequisite: Admission to the Dixie State College Respiratory Therapy program. Offered in cohort rotation.

RESP 2100 Clinical Practice I (5)
Second semester course. Introduction to the hospital setting in order to practice clinical application of all skills mastered in RESP 2041 and RESP 2071 while developing interaction skills with patients and other members of the health care team. Proficiency must be demonstrated in providing therapies, monitoring and documenting care, and prioritizing to develop time management skills, while students participate in clinical care conferences and in evaluation of the appropriateness of care with respect to CPGs. 225 clinical hours. 

Prerequisite: Admission to the Dixie State College Respiratory Therapy program. Offered in cohort rotation.

RESP 2200 Cardiopulmonary Diagnostics (3)
Third semester course. An in-depth review of pulmonary function studies such as spirometry, lung volumes and diffusing capacities, bronchial provocation testing, and bronchodilator response studies as well as blood gas analysis and interpretation of arterial, capillary, and mixed venous blood gases, with an emphasis on case-based learning and application of diagnostic findings to initiating or modifying patient care. Introduction of cardiac assessments and interventions (EKGs, echocardiography, IABP support, and hemodynamics including Swan-Ganz and arterial catheters). 

Prerequisite: Admission to the Dixie State College Respiratory Therapy program. Offered in cohort rotation.
COURSE DESCRIPTIONS

RESP 2300 Intro Mechanical Ventilation (3)
Third semester course. Theory and clinical indications of all modes of ventilatory support, emphasizing mastery of understanding the indications for initiation and continuation of ventilatory support, assessing and monitoring patients on life-support, integrating patient response to therapy with recommendations for modifying ventilator support, and determining the appropriate time and method for weaning from mechanical ventilation. Includes application of CPAP, BiPAP, negative pressure ventilation, and positive pressure ventilation, and introduces ventilators used in extended care or home care. Prerequisite: Admission to the Dixie State College Respiratory Therapy program. Offered in cohort rotation.

RESP 2301 Adult Mech Ventilation Lab (2)
Lab portion of RESP 2300. Case-based practice in selecting appropriate mode of mechanical ventilation from a wide range of ventilation modes based on patient situations; then initiating, monitoring, assessing, and recommending changes to ventilatory support; and weaning from mechanical ventilation. A wide range of ventilation modes and applications is mastered through a case-based format. Lab fee required. Prerequisite: Admission to the Dixie State College Respiratory Therapy program. Offered in cohort rotation.

RESP 2310 Clinical Practice II (5)
Third semester course. Clinical experience course emphasizing the provision of mechanical ventilation and assessment of patients in the emergency and intensive care settings. 225 clinical hours. Prerequisite: Admission to the Dixie State College Respiratory Therapy program. Offered in cohort rotation.

RESP 2400 Alt Site / Subacute Resp Care (1)
Fourth semester course. Introduces practice of respiratory care in a home care/DME setting, pulmonary rehabilitation, patient education, smoking cessation, and sleep disorders including sleep apnea. Prerequisite: Admission to the Dixie State College Respiratory Therapy program. Offered in cohort rotation.

RESP 3005 Critical Care/ACLS (3)
Third semester course. Expands basic skills acquired in previous respiratory therapy courses and focuses on the presentation and management of patients in the ICU and emergency settings, emphasizing patient assessment and procedures involved in resuscitation including current practices in advanced life support. Prerequisite: Admission to the Dixie State College Respiratory Therapy program. Offered in cohort rotation.

RESP 3020 Neonatal/Pediatric Resp Care (2)
Fourth semester course. Introduces theory and practice of pediatric and neonatal respiratory care, including specific anatomy, physiology and pathophysiology associated with neonates and children. Includes assessment, management, ventilatory techniques and equipment specific to infants and children as well as pharmacology, with medications and dosages specific to infants and children, and ventilatory modes such as HFJV and oscillation ventilation. Prerequisite: Admission to the Dixie State College Respiratory Therapy program. Offered in cohort rotation.

RESP 3021 Neonatal Care Lab Practice (2)
Fourth semester course. Laboratory practice of techniques associated with airway management, ventilatory support, and resuscitation of infants and children. Case-based learning emphasizes patient assessment and initiation of appropriate respiratory support for infants and children. Lab fee required. Prerequisite: Admission to the Dixie State College Respiratory Therapy program.

RESP 3100 Clinical Practice III (5)
Fourth semester course. Capstone clinical practice course includes experience in neonatal intensive care as well as demonstrating continuing competency in adult intensive care, emergency care, and general respiratory care. Clinical rotations include experience in the home care setting and sleep laboratory. 300 clinical hours. Prerequisite: Admission to the Dixie State College Respiratory Therapy program. Offered in cohort rotation.

RESP 3150 Critical think Sem/NBRC Review (2)
Fourth semester course. Comprehensive curriculum review based on NBRC credentialing exams. Case-based clinical simulations require students to integrate all concepts learned throughout the curriculum and clinical practice courses and apply this knowledge to branching-logic scenarios. Prerequisite: Admission to the Dixie State College Respiratory Therapy program. Offered in cohort rotation.

SCI 1001 FYE for Science and Pre-Professionals (1)
A First Year Experience course strongly recommended for all entering freshmen and transfer student with 0-24 credits. Designed to help students succeed in science and other courses, adapt to college life, and become integrated into Dixie State College. Students will refine academic skills, create and foster social networks, learn about college resources, and explore different fields of study, degree options, and career opportunities as well as learning what science is and some of the career paths one can take in science. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1026). Students may only take one FYE course for credit. FA, SP

SCI 2600 Lab Safety for Teachers (1)
Scientific school laboratory safety certification course required for secondary education majors to receive teaching endorsements in the sciences. Course will include the necessary knowledge required for pre-service teachers to safely teach lab science, including identifying the most common safety issues and providing affordable solutions. F

SECONDARY EDUCATION (SCED)

SCED 3720 Reading Writing Content Areas (3)
Required for all Secondary Education Teaching (SET) students. Prepares secondary education teacher candidates to facilitate reading, writing and study skills in the content areas at the middle and secondary school level. Recommended to be taken concurrently with SCED 4100, SCED 4600, and SCED 4700 (or major equivalent). Combined lecture/practicum. Prerequisite: Admission to the Dixie State College Secondary Education Teacher (SET) program. FA

SCED 4100 Curriculum, Instruction & Assessment (3)
Required for all Secondary Education Teaching (SET) students. Examines research-based curricular, instructional, and assessment issues, and national, state, and district standards. Prepares secondary education teacher candidates to unwrap state content standards and write objectives/enduring understandings, design formative and summative assessments, and align instruction with objectives and assessments. The primary models for this course will include Understanding by Design (UbD) and Professional Learning Communities (PLC). Combined lecture/practicum. Prerequisite: Admission to the Dixie State College Secondary Education Teaching (SET) program. FA

SCED 4600 Classroom Management (3)
Required for all Secondary Education Teaching (SET) students. Designed for the management and leadership of the middle and high school classrooms. Areas include: discipline, procedures and routines, interpersonal relationships, classroom environment, learner motivation, and parental involvement. Students will design a comprehensive Classroom Management Plan (CMP). Combined lecture/practicum course. Prerequisite: Admission to the Dixie State College Secondary Education Teaching (SET) program. FA

SCED 4700 Content Methods Course (3)
Required for all Secondary Education Teaching (SET) students. Education and academic content faculty will work together to ensure content knowledge and effective pedagogy are appropriate for secondary grades 7-12. Cooperative Education relates to the classroom to the employment community. Lectures, seminar discussion, and practicum experiences in local secondary schools are the modes of instruction for this course. Teacher candidates will develop lesson plans based on national and state standards that include subject matter, instructional methods, assessments, and analysis of student learning from their practicum experience. Can be substituted with an equivalent methods course in a specific content area. Combined lecture/practicum. Prerequisite: Admission to the Dixie State College Secondary Education Teaching (SET) program. FA

SCED 4900 Secondary Student Teaching (10)

Required for all Secondary Education Teaching (SET) students. Thirteen (13) weeks of full-time student teaching in a secondary school classroom (grades 7-12). Cooperating (mentor) teachers support teacher candidates as they are given responsibility of all aspects of teaching and learning in the classroom. DSC faculty members supervise and evaluate the teacher candidates using the department of education assessment tool. At the successful conclusion of the course, the teacher candidate will have completed the required content coursework and the student teaching requirement, and they will be eligible for the Utah Secondary Teaching License. Prerequisite: Admission to the Dixie State College Secondary Education Teaching (SET) program. Corequisite: SCED 4989. SP

SCED 4989 Student Teaching Seminar (2)

Required for all Secondary Education Teaching (SET) students. Teacher candidates debrief and collaborate about special topics such as classroom management, lesson design, assessment, and instructional strategies. The purpose of this seminar is to solidify the pre-service experiences, present the professional portfolio and teacher work sample in its entirety and to dialogue with educational professionals to plan professional development subsequent to graduation. Prerequisite: Admission to the Dixie State College Secondary Education Teaching (SET) program. Corequisite: SCED 4989. SP

SOCIALLY (SOC)

SOC 1010 Intro to Sociology (3)

Fulfills General Education Social & Behavioral Sciences requirement and partially fulfills General Education Global & Cultural Perspectives requirement. 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. FA, SP, SU

SOC 1020 Social Problems (3)

Fulfills General Education Social & Behavioral Sciences requirement and partially fulfills General Education Global & Cultural Perspectives requirement. Studies contemporary social issues dealing with crime, sexuality, drug abuse, violence, and families, in addition to larger social problems such as war, poverty, race and ethnic relations, population and the environment through lectures, guest speakers, film, writing assignments, and exams. FA, SP

SOC 1200 Sociology of the Family (3)

Fulfills General Education Social & Behavioral Sciences requirement. Teaches what sociology is and how sociology is applied to the study of families, covering many different aspects of including families through history, gender roles, love, sexuality, courtship, marriage, parenting, children, racial-ethnic families, families and work, family violence, separation and divorce, and aging in the family through lectures, guest speakers, film, writing assignments, and exams. Offered based on sufficient student need.

SOC 1800 Sociology Work Experience (1 - 3)

Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. FA

SOC 1810 Sociology Work Experience (1 - 3)

Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

SOC 1820 Sociology Work Experience (1 - 3)

Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

SOC 3020 Social Psychology (3)

Partially fulfills General Education Global & Cultural Perspectives requirement. Open to all students. Covers such topics as affiliation, attitudes, social perception, conformity, authoritarianism, group dynamics, and leadership. Individual behavior in small groups and small group dynamics will have special emphasis. Prerequisite: SOC 1010 or PSY 1010. SP

SPANISH (SPAN)

SPAN 1010 Beginning Spanish I (4)

Beginning course for students with little or no Spanish language experience. Native-speakers and students who have acquired proficiency in this language through extended residence, military service, church missions, or other methods may not enroll in this class. Emphasizes conversation, vocabulary building, and basic grammar. A variety of teaching methods will be employed, including drills, videos, etc. Some discussion of culture is included. This course partially qualifies students to receive an Associate of Arts or Bachelor of Arts degree. Successful completers are prepared to take SPAN 1020. Placement in foreign language classes is at the discretion of the Department Chair. FA, SP, SU

SPAN 1020 Beginning Spanish II (4)

For students who have completed SPAN 1010 or who have equivalent experience (approximately two years of high school Spanish). Native-speakers and students who have acquired proficiency in this language through extended residence, military service, church missions, or other methods may not enroll in this class. Speaking, listening, reading, and writing, as well as cultural awareness will be emphasized. Varied methods are used to teach the class, including videos and drilling. Students using 1020 as an entry level class may receive vertical credits for SPAN 1010 upon passing 1020 with a C grade or higher. This course partially qualifies students to receive an Associate of Arts or Bachelor of Arts degree. Upon completion of this course you will be prepared to take SPAN 2010. Equivalent experience may substitute for prerequisite. Placement in foreign language classes is at the discretion of the Department Chair. Prerequisite: SPAN 1010 or instructor permission. FA, SP, SU

SPAN 2010 Intermediate Spanish I (4)
COURSE DESCRIPTIONS

For Intermediate level students who have taken Spanish 1020, or equivalent experience (four or more years of high school Spanish). Native-speakers and students who have acquired proficiency in this language through extended residence, military service, church missions, or other methods may not enroll in this class. Second-year course that emphasizes grammar review, composition, reading and conversation, and cultural awareness. Students using 2010 as an entry level class may receive vertical credits for lower level courses upon passing 2010 with a C grade or higher. This course partially qualifies students to receive an Associate of Arts or Bachelor of Arts degree. Successful completers will be prepared to take Spanish 2020. Not for students with extended Spanish language experience abroad. Equivalent experience may substitute for prerequisite. Placement in foreign language classes is at the discretion of the Department Chair. Prerequisite: SPAN 1020 or instructor permission. FA

SPAN 2020 Intermediate Spanish II (4)
For Intermediate students who have taken Spanish 2010, or equivalent (four or more years of high school Spanish). Continued emphasis on grammar and introduction of authentic literary works to develop reading comprehension at a higher level. Cultural awareness will be emphasized as well. Students using 2020 as an entry level class may receive vertical credits for lower level courses upon passing 2020 with a C grade or higher. This course, along with one other Spanish course, will partially qualify students to receive an Associate of Arts degree. Not for students with extended Spanish language experience abroad. Successful completers should continue studies with SPAN 3020. Equivalent experience may substitute for prerequisite. Placement in foreign language classes is at the discretion of the Department Chair. Prerequisite: SPAN 2010 or instructor permission. SP

SPAN 3010 Heritage Spanish (3)
Designed for students whose home language is Spanish but whose education has been in English. Grammar will be reviewed while emphasizing the mechanics of written Spanish, including syntax, spelling, and the use of accents. Culture and traditions will also be taught. Strongly recommended for heritage Spanish students prior to taking more advanced Spanish courses. Offered based upon sufficient student need.

SPAN 3020 Conversation / Reading Spanish (3)
Emphasizes conversation through readings of both historical and contemporary topics. These readings will help introduce students to various aspects of Hispanic traditions, customs and values. Includes oral discussions. Emphasis on tools for advanced reading: vocabulary recognition, comprehension of idiomatic expressions, and knowledge of advanced grammar. Equivalent experience may substitute for prerequisite. Prerequisite: SPAN 2020. FA

SPAN 3060 Adv Grammar, Culture, Comp I (3)
Special attention is given to advanced areas of Spanish grammar appropriate for oral argumentation and expository writing and also to distinctions between formal and informal usage. Continued development of conversational and written skills through discussing the different cultural aspects of Spanish-speaking countries, emphasizing the richness of the different cultures as well as dialectal uses of grammar. Critical and creative writing with emphasis on summaries, narrations, and descriptions of a factual nature, and supported opinion. Authentic materials promote the understanding of Hispanic cultures. Students using 3060 as an entry level class may receive vertical credits for lower level courses upon passing 3060 with a C grade or higher. Equivalent experience may substitute for prerequisite. FA, SP

SPAN 3070 Adv Grammar Culture & Comp II (3)
Continuation of SPAN 3060. Emphasizes advanced grammar (including distinctions of tense, aspect and mood; reflexive and passive usage; and pronoun selection). Attention is paid to Spanish/English contrasts. Grammar skills are developed in conversation and in reading and writing. Students are also introduced to linguistic concepts that will help them make their own judgments about grammar and pronunciation. Prerequisite: SPAN 3060. SP

SPAN 3200 Business Spanish (3)
Introduction in Spanish to basic business concepts (relating to company structure, accounting, banking, etc.) with a focus on Spanish vocabulary and writing skills for business. Attention to applications in Spanish-speaking countries. A course devoted to learning and practicing oral and writing basic terminology and vocabulary related to commerce with Spain and Latin America. Practice in commercial letter writing. Prerequisite: SPAN 3060. FA

SPAN 3390 Understanding Spanish Literature (3)
Readings in modern Hispanic literature (either Spanish peninsular or Latin American), focusing on formal literary analysis. Prerequisite: SPAN 3060. FA

SPAN 3580 Contemporary Issues (3)
Introduction to contemporary and historical, political, economic, and cultural issues affecting one or more of the countries of Spain and/or Spanish America. Repeatable for credit when topic varies. Prerequisite: SPAN 3060. Offered based upon sufficient student need.

SPAN 3950 Hispanics in US Service Learn (3)
Service Learning advanced Spanish course looking at a wide variety of issues that affect the lives of Hispanics living in the United States: immigration law, ESL, education, health issues, discrimination, employment, religion, etc. Students will become familiar first hand with these issues working on volunteer projects in a variety of settings such as public schools, hospitals and health clinics, legal service offices, and minority civic centers. Students will do work on a volunteer basis (not for pay) in an area that will be linguistically challenging and therefore will show a gain in Spanish language skills in order to increase cultural awareness and heightened sensitivity for immigrant issues. Prerequisite: SPAN 3060. Offered in rotation; consult class schedule.

SPAN 4450 Iberian Culture & Civilization (3)
Covers the cultural history of Spain from the Middle Ages to the present, including history, architecture, art, literature music and film, to determine if there is a uniquely Spanish manner of seeing and understanding the world—one which emerges as clearly distinct from the culture of America and other Western European nations. Prerequisite: SPAN 3060. Offered in rotation; consult class schedule.

SPAN 4610 Survey Peninsular Literature I (3)
Survey of selected periods and themes in Spanish literature of the Iberian Peninsula. Students will examine the most important literary texts, trends, genres, and literary, cultural, and philosophical theories from the Middle Ages to 17th Century through class discussions and lectures, analysis of readings, online databases, and videos. Prerequisite: SPAN 3390. Offered in rotation; consult class schedule.

SPAN 4620 Survey of Peninsular Lit II (3)
Survey of selected periods and themes in Spanish literature of the Iberian Peninsula. Readings of masterpieces by great writers chosen from the 18th Century to the present will be examined through lectures, oral discussions, and written reports in Spanish. Prerequisite: SPAN 3390. Offered in rotation; consult class schedule.

SPAN 4630 Survey of Latin American Lit I (3)
Survey of selected periods and themes in Spanish American literature, covering texts from the pre-Hispanic, European exploration, and colonization of the Americas (1492-1826) periods in order to study a topic of interest in Spanish American literature and culture through reading and thinking critically about a wide variety of literary and cultural texts, including letters, chronicles, essays, poetry, and fiction. Prerequisite: SPAN 3060. Offered in rotation; consult class schedule.

SPAN 4640 Survey Latin American Lit II (3)
Survey of selected periods and themes in Spanish American literature, covering texts from independence to the present in order to study a topic of interest in Spanish American literature and culture through reading and thinking critically...
about a wide variety of literary and cultural texts, including romantic allegories of the nation, modernism and postmodernism, avant-garde poetry, regionalism versus cosmopolitanism, indigenous and indigenist literature, magical realism and literature of the boom, Afro-Hispanic literature, and testimonial narrative. **Prerequisite:** SPAN 3060. Offered in rotation; consult class schedule.

### STATISTICS (STAT)

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<th>Course Code</th>
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<tbody>
<tr>
<td>STAT 2040</td>
<td>Business Statistics</td>
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Required of students pursuing School of Business degrees or emphases. Introduction to basic statistical reasoning, including data distributions, descriptive statistics, probability and probability distributions, and sampling distributions, as well as inferential methods such as tests of hypotheses, analysis of variance, “Goodness of Fit”, and regression. **Prerequisites:** CIS 1200; AND MATH 1010. 

### STUDENT SERVICE COURSES (SSC)

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<th>Course Code</th>
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<tbody>
<tr>
<td>SSC 1001</td>
<td>Student Support Services Smart Start</td>
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</table>

A First Year Experience course. Introduces and integrates new TRiO-Student Support Services students to the DSC community, both academically and socially, by developing awareness of campus resources and assisting in exploring and establishing personal, academic, and career goals. Includes strategies for academic success, such as critical thinking skills, time management, financial aid resources, financial literacy, service learning, and effective collaboration techniques. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1026). Students may only take one FYE course for credit. **Prerequisite:** Instructor permission. 

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<tr>
<td>SSC 1050</td>
<td>Academic Success Forum</td>
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Open to all students who wish to improve their academic performance. A series of lectures is offered to help students adapt to the academic environment by improving study and life skills. Different speakers from the college and the community will address topics of interest to adult students. Students will submit a written evaluation for each class period. Repeatable up to 2 credits subject to graduation restrictions. 

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<tr>
<td>SSC 1200</td>
<td>Career Planning Seminar</td>
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Designed to teach students career development skills by having students learn about themselves, learn about the world of work, and learn skills that facilitate this process. Assists students in making relevant and realistic career decisions by using current assessment tools and decision making process. 

**Offered based on sufficient student need.**

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<tr>
<td>SSC 1300</td>
<td>Student Ambassador Leadership</td>
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For students who are appointed as Student Ambassadors working with the School Relations Office. Surveys leadership techniques, procedures and communication skills essential to student leadership with special emphasis on representing Dixie State College to prospective students. Minimum 45 hours of student involvement, attendance, and activity is required. Repeatable up to 4 credits subject to graduation restrictions. **Prerequisite:** Instructor permission required. 

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<tr>
<td>SSC 1350</td>
<td>Student Government Leadership</td>
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For members of the Dixie State College Student Association executive council, class officers, and club presidents. Surveys leadership techniques, procedures, and communication skills essential to student leadership with special emphasis on the student government of Dixie State College. Minimum 45 hours of student involvement, attendance, and activity is required. Repeatable up to 4 credits subject to graduation restrictions. **Prerequisite:** Instructor permission required. 

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<tr>
<td>SSC 1400</td>
<td>Student Alumni Leadership</td>
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For members of the Student Alumni Association executive council. Surveys leadership techniques, procedures, and communication skills essential to alumni, student, and community leadership with special emphasis on the alumni of Dixie State College. Minimum 45 hours of student involvement, attendance, and activity is required. Repeatable up to 2 credits subject to graduation restrictions. **Prerequisite:** Instructor permission required. 

**SSC 2001 SSS Smart Start Seminar II (1)**

For continuing TRiO-Student Support Services students. Continuation of SSC 1001. Exploration of academic programs continues with emphasis on financial literacy, scholarships, financial aid, major selection, bachelor’s programs and college transfer. Focus is on development of personal financial awareness and responsibilities, baccalaureate attainment, and community citizenship. Repeatable up to 4 credits subject to graduation restrictions. **Prerequisite:** Instructor permission. 

### SURGICAL TECHNOLOGY (SURG)

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<tr>
<td>SURG 1050</td>
<td>Surgical Technology</td>
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For students in the Surgical Technology program. Basic introduction to fundamentals of surgical environment, including surgical routines, microbiology, asepsis, sterilization principles and practices, equipment, safety practices in the OR, anesthesia, surgical pharmacology, physiological homeostasis, wound healing, biomedical science, and handling and safety of specialized equipment, as well as surgical set ups for different surgical specialties. Course fee required. **Prerequisite:** Admission to the Dixie State College Surgical Technology program. **Corequisites:** SURG 1055; AND SURG 1060. 

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<tr>
<td>SURG 1055</td>
<td>Surgical Technology Lab</td>
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Students will gain experience applying previously learned principles in the lab settings. The students will pass off and complete skill assessments, practice and demonstrate competencies. 4 lab hours per week. **Corequisites:** SURG 1050 and SURG 1060. 

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<tr>
<td>SURG 1060</td>
<td>Surgical Technology Clinic</td>
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For students in the Surgical Technology program. Application of classroom and lab knowledge while working with a designated preceptor on specific goals. Students will demonstrate and perform previous competencies, including dressing in proper surgical attire, performing basic hand washing, handling supplies for surgical procedures, room turn-over activities, operating sterilization equipment, obtaining supplies, creating and maintaining sterile field, performing surgical hand scrub, and anticipating needs of the sterile team. **Prerequisite:** Admission to the Dixie State College Surgical Technology program. **Corequisites:** SURG 1050; AND SURG 1065. 

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<tr>
<td>SURG 1070</td>
<td>Adv Surgical Technology</td>
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For students in the Surgical Technology program. Continuation of SURG 1050. Introduction to surgical technologist role and responsibility in specialized surgical procedures, including review of surgical anatomy, and specific procedures and setups. Focuses on diagnostic procedures and surgeries in specialties: general, obstetrics, gynecologic, ear/nose/throat, oral and maxillofacial, ophthalmic, plastic and reconstructive, genitourinary, orthopedic, cardiovascular / peripheral vascular, neurological, and thoracic. Course fee required. **Prerequisites:** SURG 1050; AND SURG 1055; AND SURG 1060. **Corequisites:** SURG 1075; AND SURG 1080. 

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<tr>
<td>SURG 1075</td>
<td>Adv Surgical Technology Lab</td>
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The students will identify names and uses of surgical instruments, supplies and drugs. Students will demonstrate proper positioning and draping, discuss the purpose and expected outcomes for surgical procedure, and pass off skill assessments with lab instructors. 4 lab hours per week. **Corequisites:** SURG 1070 and SURG 1080.
### COURSE DESCRIPTIONS

#### SURG 1080 Adv Surgical Technology Clinic (0)
For students in the Surgical Technology program. Continuation of SURG 1060. Emphasizes additions to first semester skills with additional emphasis on specialized surgical procedures: general obstetrics, gynecologic, ear/nose/throat, oral and maxillofacial, ophthalmic, plastic reconstructive, genitourinary, orthopedic, cardiovascular/ peripheral vascular, neurosurgical, and thoracic. **Prerequisites:** SURG 1050; AND SURG 1055; AND SURG 1060. Corequisites: SURG 1070; AND SURG 1075. **SP**

#### TECHNOLOGY (TECH)

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<th>Course</th>
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<tbody>
<tr>
<td>TECH 1000</td>
<td>Skills USA</td>
<td>1</td>
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<tr>
<td>TECH 1010</td>
<td>Skills USA Competition Prep</td>
<td>1</td>
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</table>

For vocational students who are members of the Vocational Industrial Clubs of America (VICA) preparing for competition. Past competitors and industrial mentors will assist competitors in their competition preparation. VICA members participate in service activities, DSC club activities, and state and national competitions. First place winners at state competition compete at nationals. Repeatable up to 4 credits subject to graduation restrictions. Course fee required. **Offered based on sufficient student need.**

#### THEATRE (THEA)

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<th>Course</th>
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<tbody>
<tr>
<td>THEA 1001</td>
<td>Theatre First Year Experience</td>
<td>1</td>
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<tr>
<td>THEA 1013</td>
<td>Introduction to Theatre</td>
<td>3</td>
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<tr>
<td>THEA 1023</td>
<td>Understanding Film</td>
<td>3</td>
</tr>
<tr>
<td>THEA 1026</td>
<td>Understanding Film / FYE</td>
<td>4</td>
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**THEA 1001 Theatre First Year Experience**
A First Year Experience course required for Theatre majors during the students first 24 credits of college course work. Designed to help students succeed in Theatre and other courses, adapt to college life, and become integrated into Dixie State College. Students will refine academic skills, create and foster social networks, and learn about college resources. Specific emphasis on Theatre program procedures and expectations. Theatre major requirements, and Theatre career paths. Multiple listed with all other sections of First Year Experience (all 1001 courses, ENGR 1000, THEA 1026). Students may only take one FYE course for credit. **FA, SP**

**THEA 1013 Introduction to Theatre**
Fulfills General Education Fine Arts requirement. 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. **FA, SP**

**THEA 1023 Understanding Film**
Fulfills General Education Humanities requirement. 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. **FA, SP**

**THEA 1026 Understanding Film / FYE**
A First Year Experience course that also fulfills the General Education Humanities requirement. An FYE course is strongly recommended for entering freshmen and transfer students with 0-24 credits. The FYE portion is designed to help students adapt to college life and become integrated into Dixie State College. Students will refine academic skills, create and foster social networks, learn about college resources, and explore different fields of study, degree options, and career opportunities. Designed for open majors, course will include information about choosing a major or area of study. Also explores filmmaking techniques, film criticism, aesthetic aspects of film art, and thematic concepts of film in the context of viewing historical and contemporary films. Students view, analyze, discuss, and write about various aspects of film such as plot, theme, character, and setting. Combined lecture / lab. **Offered based upon sufficient student need.**

**THEA 1033 Acting I**
Required of Theatre majors, and open to all students interested in acting. Covers basic elements of characterization, including character analysis, movement, vocal characterization, and establishment of emotion, while emphasizing performance skill development. Students prepare and perform three to six scenes in groups. Successful completers are prepared to perform in Dixie State College Theatre productions and have fulfilled the prerequisite to THEA 2033. **FA, SP**

**THEA 1050 Intro Visual Arts of Theatre**
For students interested in a foundational understanding and appreciation of the elements of technical theatre. Covers technical components of theatre, including set, costume, makeup design, and production, emphasizing design theory and appreciation. Students are required to attend live Dixie State College theatre productions. **Offered based upon sufficient student need.**

**THEA 1113 Voice and Diction I**
For students preparing for majors or careers in theatre performance, radio / television broadcasting, speech therapy, and vocal music, as well as other students seeking to improve articulation and increase control of the speaking voice. Covers basic mechanics of speech production, including respiration, phonation, resonance and articulation, using Lessac methodology. Fulfills prerequisite for THEA 2113. **FA**

**THEA 1150 Theatre Workshop: Performance (0.5 - 1)**
For any student desiring to participate in Dixie State Theatre productions. Fulfills requirement for Theatre majors. Hands-on experience in practical theatre skills, using actual productions as the learning laboratory. Emphasizing development of personal discipline and collaborative skills, these workshops offer students preparation for entry level in professional theatre productions (community theatre, summer stock, etc.). Credit dependent on hours committed to the production. Audition may be required for performing roles. Variable credit 0.5 – 1.0. Repeatable up to 2 credits subject to graduation restrictions. **Prequisite:** Instructor permission. **FA, SP**

**THEA 1160 Theatre Workshop: Costumes (0.5 - 1)**
For any student desiring to participate in Dixie State Theatre productions. Fulfills requirement for Theatre majors. Hands-on experience in practical theatre skills, using actual productions as the learning laboratory. Emphasizing development of personal discipline and collaborative skills, these workshops offer students preparation for entry level in pre-professional theatre productions (community theatre, summer stock, etc.). Credit dependent on hours committed to the production. Audition may be required for performing roles. Variable credit 0.5 – 1.0. Repeatable up to 2 credits subject to graduation restrictions. **Prequisite:** Instructor permission. **FA, SP**

**THEA 1170 Theatre Workshop: Sets (0.5 - 1)**
For any student desiring to participate in Dixie State Theatre productions. Fulfills requirement for Theatre majors. Hands-on experience in practical theatre skills, using actual productions as the learning laboratory. Emphasizing development of personal discipline and collaborative skills, these workshops offer students preparation for entry level in professional theatre productions (community theatre, summer stock, etc.). Credit dependent on hours committed to the production. Audition may be required for performing roles. Variable credit 0.5 – 1.0. Repeatable up to 2 credits subject to graduation restrictions.
Prerequisite: Instructor permission. FA, SP

THEA 1180 Theatre Workshop: Lights (0.5 - 1)
For any student desiring to participate in Dixie State Theatre productions. Fulfills requirement for Theatre majors. Hands-on experience in practical theatre skills, using actual productions as the learning laboratory. Emphasizing development of personal discipline and collaborative skills, these workshops offer students preparation for entry level in pre-professional theatre productions (professional communities, summer theatre, etc.). Credit dependent on hours committed to the production. Audition may be required for performing roles. Variable credit: 0.5 – 1.0. Repeatable up to 2 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

THEA 1223 Stage Makeup (3)
For students interested in stage makeup. Covers theory and skills of basic stage makeup, including straight makeup, character makeup, clown makeup and age makeup. Students who complete this course should be prepared to assist with makeup application for Dixie State College Theatre and other pre-professional productions. Course fee required. FA

THEA 1513 Stage Craft (3)
For students who wish to develop technical theatre skills. Required of Theatre majors. Fundamental course in theatrical production techniques, focusing on stage set construction. Students who complete this course should be prepared to assist with Dixie College Theatre and other pre-professional productions. Course fee required. FA

THEA 1713 Script Analysis (3)
For all students interested in an introductory course on script analysis. Required of Theatre majors. Focuses on plot, character, language, thematic analysis, and dramaturgy of various historical and modern performance texts in the context of contemporary staging and performance practices. FA

THEA 1800 Theatre Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. FA

THEA 1810 Theatre Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

THEA 1820 Theatre Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SU

THEA 1900 Private Applied Theatre: Acting (1)
Private acting lessons for performance majors of other students seeking to increase skills in theatrical performance to meet personal goals or explore the theatre major. Repeatable up to 8 credits subject to graduation restrictions. Course fee required. Prerequisite: Instructor permission. FA, SP

THEA 2033 Acting II (3)
Continues THEA 1033. For students interested in acting. Emphasizes performance skill development, and includes elements of acting with emphasis on characterization and scene study using Meisner methodology. Students prepare and perform three to six scenes in groups. Successful completers are prepared to perform in Dixie State College Theatre and other pre-professional productions and have fulfilled the prerequisite to THEA 2043 and upper-division “Acting Studio” courses. Prerequisite: THEA 1033. SP

THEA 2043 Acting III (3)
Continues THEA 2033. For students interested in acting. Emphasizes performance skill development, and covers elements of acting, including emphasis on audition, resume, and interview preparation. Students prepare and perform four to eight scenes. Successful completers are prepared to perform in Dixie State College Theatre and other pre-professional productions and have fulfilled the prerequisite to THEA 2053. Prerequisite: THEA 2033. FA

THEA 2053 Classical Acting (3)
For Theatre students and other interested in intermediate preparation for performance of classical texts, including Ancient Greek and Shakespearean works. Emphasizes text analysis, scansion, rhetoric, speech, movement, character development, and performance techniques. Prerequisite: THEA 2043. SP

THEA 2093 Theatre Internship I (1 - 4)
For Theatre students seeking to gain a deeper understanding of the demands of the profession and to enhance their ability to function in a professional environment. Emphasizes skill refinement, which can include performance, costume, set construction, lights, sound, wardrobe, stage make-up, properties, box office work, assistant directing or management, and stage management. Audition may be required for performance roles. Variable credit: 1.0 – 4.0. Repeatable up to 4 credits dependent on graduation restrictions. Prerequisite: Instructor permission. Offered based upon sufficient student need.

THEA 2150 Theatre Workshop: Performance (0.5 - 1)
For any student desiring to participate in Dixie State Theatre productions. Fulfills requirement for Theatre majors. Hands-on experience in practical theatre skills, using actual productions as the learning laboratory. Emphasizing development of personal discipline and collaborative skills, these workshops offer students preparation for entry level in pre-professional theatre productions (community theatre, summer stock, etc.). Credit dependent on hours committed to the production. Audition may be required for performing roles. Variable credit: 0.5 – 1.0. Repeatable up to 2 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

THEA 2160 Theatre Workshop: Costumes (0.5 - 1)
For any student desiring to participate in Dixie State Theatre productions. Fulfills requirement for Theatre majors. Hands-on experience in practical theatre skills, using actual productions as the learning laboratory. Emphasizing development of personal discipline and collaborative skills, these workshops offer students preparation for entry level in pre-professional theatre productions (community theatre, summer stock, etc.). Credit dependent on hours committed to the production. Audition may be required for performing roles. Variable credit: 0.5 – 1.0. Repeatable up to 2 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

THEA 2170 Theatre Workshop: Sets (0.5 - 1)
For any student desiring to participate in Dixie State Theatre productions. Fulfills requirement for Theatre majors. Hands-on experience in practical theatre skills, using actual productions as the learning laboratory. Emphasizing development of personal discipline and collaborative skills, these workshops offer students preparation for entry level in pre-professional theatre productions
THEA 2180 Theatre Workshop: Lights (0.5 - 1)
For any student desiring to participate in Dixie State Theatre productions. Fills requirement for Theatre majors. Hands-on experience in practical theatre skills, using actual productions as the learning laboratory. Emphasizing development of personal discipline and collaborative skills, these workshops offer students preparation for entry level in pre-professional theatre productions (community theatre, summer stock, etc.). Credit dependent on hours committed to the production. Audition may be required for performing roles. Variable credit 0.5 – 1.0. Repeatable up to 2 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

THEA 2203 Costume Construction (3)
For students interested in fundamental costume construction techniques and methods of costume styling. Focuses on hand and machine sewing skills and application to real DSC theatre productions. Course fee required. FA (Even years)

THEA 2210 Scene Design I (3)
For Theatre majors and other students interested in scene design. Covers application of script analysis and director concepts to the design of scenery for theatrical productions in order to prepare students for advanced design study and potential design opportunities. FA (Even years)

THEA 2220 Children's Theatre (3)
For students interested in the theory and practice of theatre for child audiences, including plays, storytelling, masks, puppetry, creative dramatics, and other forms. Covers the selecting and adapting literature, producing, directing, acting, visual elements, and production support through text and literature readings as well as practical projects. SP (Even years)

THEA 2230 Lighting Design I (3)
Introduces students to the mechanical aspects of stage lighting. Provides a basic understanding of light energy, angle, color, and lighting technology. Also helps the actor, director, technician and designer understand functions, psychology, and practical application of lighting design in order to prepare students for advanced design study and potential design opportunities. FA (Odd years)

THEA 2240 Costume Design I (3)
Introduces costume design and rendering, including lecture, demonstration, two dimensional rendering with graphite/watercolor and research projects culminating in a notebook of free writing, outlining the concept for each project. Prepares students for advanced design study and potential design opportunities. FA (Odd years)

THEA 3023 Film Genres (3)
For students interested in various types and forms of film expression identified with particular traditions, which can include Western, horror, science-fiction, musical, film noir, etc., through exploration of thematic and theoretical based in film viewing, analysis, and criticism. Combined lecture / lab. FA

THEA 3033 Music Studio: Music Theatre (3)
For acting students and others seeking instruction in musical theatre performance. Covers a variety of musical styles and teaches the skills and techniques needed to successfully perform them through participation in musical scene study, including acting, singing, and dancing. Those who successfully complete the course should have the experience necessary to participate in collegiate and semi-professional musical productions. SP (Odd years)

THEA 3043 Studio: Acting for the Camera (3)
For Theatre students specializing in performance. Covers film acting techniques, mechanics of filming, relationships with agents, on set etiquette, and working with a director and crew. Also includes audition techniques and scaling performance to fit the medium. Successful completers are prepared to begin auditioning for student and professional film projects. Prerequisite: THEA 2033. FA (Even years)

THEA 3113 Accents & Dialects (3)
Continues THEA 1113. Reinforces vocal health lessons while developing additional strength and versatility through study and performance of various accents and dialects, using the International Phonetic Alphabet and the Lessac methodology. Emphasizes performance skill development through scene study and performance. Successful completers are prepared to perform in Dixie State College Theatre and other pre-professional productions. Prerequisite: THEA 1113. SP

THEA 3150 Theatre Workshop: Performance (0.5 - 1)
For any student desiring to participate in Dixie State Theatre productions. Fills requirement for Theatre majors. Hands-on experience in practical theatre skills, using actual productions as the learning laboratory. Emphasizing development of personal discipline and collaborative skills, these workshops offer students preparation for entry level in pre-professional theatre productions (community theatre, summer stock, etc.). Credit dependent on hours committed to the production. Audition may be required for performing roles. Variable credit 0.5 – 1.0. Repeatable up to 2 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

THEA 3160 Theatre Workshop: Costumes (0.5 - 1)
For any student desiring to participate in Dixie State Theatre productions. Fills requirement for Theatre majors. Hands-on experience in practical theatre skills, using actual productions as the learning laboratory. Emphasizing development of personal discipline and collaborative skills, these workshops offer students preparation for entry level in pre-professional theatre productions (community theatre, summer stock, etc.). Credit dependent on hours committed to the production. Audition may be required for performing roles. Variable credit 0.5 – 1.0. Repeatable up to 2 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

THEA 3170 Theatre Workshop: Sets (0.5 - 1)
For any student desiring to participate in Dixie State Theatre productions. Fills requirement for Theatre majors. Hands-on experience in practical theatre skills, using actual productions as the learning laboratory. Emphasizing development of personal discipline and collaborative skills, these workshops offer students preparation for entry level in pre-professional theatre productions (community theatre, summer stock, etc.). Credit dependent on hours committed to the production. Audition may be required for performing roles. Variable credit 0.5 – 1.0. Repeatable up to 2 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

THEA 3180 Theatre Workshop: Lights (0.5 - 1)
For any student desiring to participate in Dixie State Theatre productions. Fills requirement for Theatre majors. Hands-on experience in practical theatre skills, using actual productions as the learning laboratory. Emphasizing development of personal discipline and collaborative skills, these workshops offer students preparation for entry level in pre-professional theatre productions (community theatre, summer stock, etc.). Credit dependent on hours committed to the production. Audition may be required for performing roles. Variable credit 0.5 – 1.0. Repeatable up to 2 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

THEA 3223 Stage Makeup II (3)
For Theatre majors and other interested students. Covers theory and practice of 3-dimensional makeup effects through the creation and use of prosthetic appliances. Course fee required. Prerequisite: THEA 1223. SP (Even years)
THEA 3250  Sound Design  (3)
For Theatre majors and others seeking instruction in sound design. Focuses on sound design process, practical understanding of tools and technology used in mounting a design, developing an understanding of the artistic benefits of appropriate mood generation, importance of using sound enhancement to ensure good performer-audience relationships. Successful completers will be prepared to set up a basic sound system, execute minor repairs, and successfully execute a sound design. FA (Odd years)

THEA 3260  Scene Painting  (2)
For Theatre and other students interested in theory and application of basic scene painting / scenic artist techniques for theatre. Covers surface preparation, priming, base painting, blending, scumbling, texture, and tailing to produce finished demonstration flats including wall surfaces, wallpaper, bricks, rocks, wood grain and molding, marble, foliage, and copying a selected original. Course fee required. SP (Even years)

THEA 3420  Playwriting  (3)
For Theatre majors and other student interested in developing playwriting skills. Introduces dramatic writing in plays. Covers dramatic structure, use of dialogue, character, and plot development. Requires extensive writing in a writers’ group environment. Course fee required. Prerequisite: ENGL 2010. FA (Even years)

THEA 3500  Sound Technology  (3)
For Theatre and other students interested in learning the components of a modern theatrical sound system. Successful completers will be trained to set up and operate audio systems, including most recording and playback components. FA (Even years)

THEA 3600  Directing I  (3)
For Theatre students and others interested in learning basic skills of directing for professional, community, or educational theatre. Covers theory, practice, and principles of beginning theatre direction, including script selection and analysis, research, production organization, rehearsal structure and techniques, incorporation of design and technology elements, communication skills, and leadership. Includes practical application through staging student actors in scenes. Prerequisite: THEA 1713. FA (odd years)

THEA 3610  Directing II  (3)
For Theatre students and others interested in learning basic skills of directing for professional, community, or educational theatre. Builds on skills from THEA 3600 and applies them in staging one-act plays with student actors. Prerequisite: THEA 3600. SP (even years)

THEA 3720  Theatre History & Literature I  (3)
Required of Theatre majors, and open to other interested students. Covers the literature and development of Western Theatre from its beginnings through the Renaissance. In addition to dramatic texts, examines the impact of performance spaces, aesthetic theories, religious beliefs, and the contemporary politics of a given era on the development of drama. FA

THEA 3730  Theatre History & Literature II  (3)
Required of Theatre majors, and open to other interested students. Covers the literature and development of Western Theatre from the Restoration to the present. In addition to dramatic texts, examines the impact of performance spaces, aesthetic theories, religious beliefs, and the contemporary politics of a given era on the development of drama. SP

THEA 3880  Stage Management  (3)
For Theatre majors and other interested students. Introduction to the creative and administrative work of a stage manager, including forms and formats, protocols, and roles of the stage manager in a college production. SP

THEA 3960  Professional Aspects of Theatre  (1)
For Theatre majors preparing for post-baccalaureate employment or graduate studies. Special topics and techniques are taught by faculty and professional artists in a variety of areas such as a resume and portfolio preparation, audition and interview techniques, marketing and career management, graduate school applications, and professional standards. Prerequisite: Theatre major. FA

THEA 4033  Acting Studio: Mask  (3)
For Theatre majors specializing in performance. Covers construction and use of neutral and character masks to enhance specificity of movement, non-verbal communication, characterization, and ability to project a variety of emotional states. Prerequisite: THEA 2033. FA (Odd years)

THEA 4043  Stage Combat  (3)
For Theatre majors and other interested students. Covers basic stage combat principles, scene analysis, and presentation, including a variety of stage combat techniques including movement, hand to hand, rapier / dagger, falls, pushes and kicks. Course fee required. Prerequisite: THEA 2033. SP (Even years)

THEA 4093  Theatre Internship II  (1 - 4)
For Theatre students seeking to gain a deeper understanding of the demands of the profession and to enhance their ability to function in a professional environment. Emphasizes skill refinement, which can include performance, costuming, set construction, lights, sound, wardrobe, stage make-up, properties, box office work, assistant directing or management, and stage management. Audition may be required for performance roles. Variable credit 1.0 – 4.0. Repeatable up to 4 credits dependent on graduation restrictions. Prerequisite: Instructor permission. FA, SP

THEA 4150  Theatre Workshop: Performance  (0.5 - 1)
For any student desiring to participate in Dixie State Theatre productions. Fulfills requirement for Theatre majors. Hands-on experience in practical theatre skills, using actual productions as the learning laboratory. Emphasizing development of personal discipline and collaborative skills, these workshops offer students preparation for entry level in pre-professional theatre productions (community theatre, summer stock, etc.). Credit dependent on hours committed to the production. Audition may be required for performing roles. Variable credit 0.5 – 1.0. Repeatable up to 2 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

THEA 4160  Theatre Workshop: Costumes  (0.5 - 1)
For any student desiring to participate in Dixie State Theatre productions. Fulfills requirement for Theatre majors. Hands-on experience in practical theatre skills, using actual productions as the learning laboratory. Emphasizing development of personal discipline and collaborative skills, these workshops offer students preparation for entry level in pre-professional theatre productions (community theatre, summer stock, etc.). Credit dependent on hours committed to the production. Audition may be required for performing roles. Variable credit 0.5 – 1.0. Repeatable up to 2 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

THEA 4170  Theatre Workshop: Sets  (0.5 - 1)
For any student desiring to participate in Dixie State Theatre productions. Fulfills requirement for Theatre majors. Hands-on experience in practical theatre skills, using actual productions as the learning laboratory. Emphasizing development of personal discipline and collaborative skills, these workshops offer students preparation for entry level in pre-professional theatre productions (community theatre, summer stock, etc.). Credit dependent on hours committed to the production. Audition may be required for performing roles. Variable credit 0.5 – 1.0. Repeatable up to 2 credits subject to graduation restrictions. Prerequisite: Instructor permission. FA, SP

THEA 4180  Theatre Workshop: Lights  (0.5 - 1)
For any student desiring to participate in Dixie State Theatre productions. Ful-
### THEA 4390 Costume History (3)

For Theatre majors and other interested students. Centers on origins and historical progression of fashion, social/cultural contexts, environmental and cross-cultural influences, period silhouettes, and dress as an art form. **SP (Odd years)**

**Prerequisite**: Instructor permission. **FA, SP**

### THEA 4410 Scene Design II (3)

For Theatre majors and other interested students. Expands and builds on basic techniques from THEA 2210. Emphasizes development of scenic design process through script analysis, period research, sketching, model making, and other related activities. Includes development of student portfolio. **Prerequisite**: THEA 2210. **SP (Odd years)**

### THEA 4430 Lighting Design II (3)

For Theatre majors and other interested students. Expands and builds on basic techniques from THEA 2230. Covers advanced stage design principles, including technical skills such as automated lighting and drafting programs, as well as designing for dance and film. **Prerequisite**: THEA 2230. **SP (Even years)**

### THEA 4440 Costume Design II (3)

For Theatre majors and other interested students. Expands and builds on basic techniques from THEA 2240. Includes in-depth study of the elements of design and how to apply them to practical costume problems for a variety of theatre genres, focusing on modern drama, script interpretation, rendering techniques, budgets, and fabric selections. **Prerequisite**: THEA 2240. **SP (Even years)**

### THEA 4500 Sound Design (3)

For Theatre majors and other interested students. Expands and builds on basic techniques from THEA 3500. Covers application of design elements to sound in creation of auditory environment for the stage in conjunction with DSC Theatre productions. **Prerequisite**: THEA 3500. Offered based upon sufficient student need.

### THEA 4660 Study of Period Styles & Décor (3)

For Theatre majors and other interested students. Examines styles and forms of architecture and decoration from ancient Greece to modern times, focusing on characteristics of major styles in collection with social, economic, and political history of each period. **FA (Odd years)**

### THEA 4890 Independent Study (1 - 3)

This course is designed to meet the individual needs of advanced students in the Theater Department who wish to pursue a specific focus of study related to their degree emphasis focus and/or research interest. Students work under close supervision by appropriate faculty in the design and successful completion of the course. The course is structured by a formal contractual arrangement with the faculty member that is submitted at the beginning of the semester in which that coursework is undertaken. Students are expected to meet with the faculty mentor each week and to provide the faculty member with progress reports and assignment development for feedback and grading purposes on an ongoing basis. Variable credit 1.0 – 3.0. Repeatable up to 6 credits subject to graduation restrictions. **Prerequisite**: Instructor permission. **FA, SP**

### THEA 4900 Senior Project I (1)

For Theatre majors. Research and preparation for the execution of a senior capstone project, an opportunity for graduating students to generate a paper or project in an area of primary interest reflecting the student’s emphasis in theatre arts (e.g. Acting, Directing, Design, etc.) in order to demonstrate a culmination of previous study. Project may be collaborative. Repeatable up to 2 credits dependent on graduation restrictions. **Prerequisite**: Theatre major, Senior standing, and instructor permission. **FA, SP**

### THEA 4901 Senior Project II (2)

For Theatre majors. Execution of a senior capstone project, an opportunity for graduating students to generate a paper or project in an area of primary interest reflecting the student’s emphasis in theatre arts (e.g. Acting, Directing, design, etc.) in order to demonstrate a culmination of previous study. Project may be collaborative. **Prerequisite**: THEA 4900. **FA, SP**

## TRAV (TRAV)

### TRAV 1591 Air Reservations (1)

Online course covering product knowledge, skills, terminology, planning, policies, procedures, booking, and research techniques of airline travel and non-auto-

### TRAV 1592 Ground Reservations (1)

Online course covering basics of ground transportation products, policies, codes, pricing, and distribution for car rentals. Also includes rail travel accom-

### TRAV 1593 Hospitality (1)

Online course covering basics of the hotel product, rate structure, property and room classifications, codes, published and automated resources, and non-auto-

### TRAV 1594 Vacation Packages (1)

Online course covering the basics of vacation tour product, components of tours, tour destinations, types of vacation packages and tours, print and elec-

### TRAV 1595 The Cruise Market (1)

Online course covering the cruise product, cruise classifications, destinations, and types of cruises, print resources and non-automated reservations pro-

### TRAV 1611 Automated Air Reservations (2)

Online course in automated airline reservation systems through hands-on use of RTS, a SABRE simulator, including creation of multiple passenger name records (PNRs), booking and maintaining clients’ air travel in order to develop proficiency and improve speed. **Course fee required. FA, SP, SU**

### TRAV 1621 Destination Geography (3)

Online course using outline maps to provide an understanding of basic geo-

### TRAV 1711 Travel Sales & Trends (2)

Online course covering telephone business manners, listening skills, tools for targeting the traveler, successful telephone sales steps for reservation agents as well as the travel professionals working with clients one on one, and industry trends, including the use of the Web for a variety of travel resources. **Course fee required. FA, SP, SU**

### TRAV 1731 Air Travel: U.S. Domestic (2)

Online course covering airfare terms, codes, airfare construction principles, and
fare application rules necessary to find, interpret, and apply the lowest applicable fare to a client’s air itinerary, including practicing the interpretation of multiple air transportation taxes and fees applicable to air travel. Course fee required. FA, SP, SU

TRAV 1732 ARC Documents (1)
Online course covering airline ticketing through the Airline reporting Corporation (ARC), including ticketing types, forms, policies and procedures per the ARC, as well as, forms of payment, refunds and exchanges. Course fee required. FA, SP, SU

TRAV 1771 Automated Airfares & Ticketing (1)
Online course developing proficiency in automated systems through hands-on use of RTS, a SABRE simulator, including creation of multiple passenger name records (PNRs), booking, and maintaining clients’ air travel in order to develop proficiency and improve speed. Course fee required. FA, SP, SU

TRAV 1772 Automated Car Rental & Hotel (1)
Online course covering car rentals and hotel accommodations through hands-on use of RTS, a SABRE simulator, including rates, availability, product and procedures displays, and booking reservations in order to develop proficiency and improve speed. Course fee required. FA, SP, SU

TRAV 1800 Travel Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. FA

TRAV 1810 Travel Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SP

TRAV 1820 Travel Work Experience (1 - 3)
Cooperative Education relates the classroom to the employment community. Those with a designated major and a vocational or career interest may be assisted in locating employment that relates to classroom studies. If a student has approved employment, they may be eligible for academic credit based upon the completion of structured learning objectives. Cooperative Education is available in all divisions. Permission must be obtained from the director of cooperative education before registration. Students are limited to four cooperative education credit courses or 12 cooperative education credits. SU

TRAV 1831 Fares & Tickets International (2)
Online course covering international air travel, including understanding the two basic international fare systems, mileage and routing, currency procedures, interpreting data found in CRS and printed fare and pricing information (international fare basis codes, base fares, taxes, surcharges, currency codes and mileage principle coding). Course fee required. Prerequisites: TRAV 1591; AND TRAV 1731. FA, SP, SU

VT 1300 Communication Design (3)
Required of students pursuing a Visual Technologies or Information Technology emphasis, OR a degree in Computer & Information Technology; also open to other interested students. Explores the elements of design from which advertising, computer graphics, and graphic arts are structured by building awareness and skill in creating designs, using the concepts of composition, proportion, alignment, contrasts, white space, typography, eye movement, and element control, emphasizing the value of these concepts to communicate ideas. Course fee required. FA, SP, SU

VT 1400 Intro to Internet Development (3)
Required of all Computer Science and Computer & Information Technology majors, and open to other interested students. Hands-on experience in Internet development, including fundamental web development skills including writing 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. Course fee required. FA, SP, SU

VT 2060 Digital Photography (3)
For students interested in the history, mechanics, and applications of digital photography as well as basic photographic techniques and compositional skills. Includes lecture, viewing the work of master photographers, in and out of class assignments, and in-class critiques. Each student must have access to digital camera. Dual listed with ART 2060 (students may only take one course for credit). FA, SP

VT 2500 Computer Illustration (3)
Required of students pursuing a Visual Technologies or Information Technology emphasis, or a Computer and Information Technology degree, and open to other interested students. Covers intermediate design and illustration concepts and techniques. Prepares students to create original artwork usable in multimedia, Internet publishing, or desktop publishing. Course fee required. Prerequisite: VT 1300 (Grade C- or higher). FA, SP, SU

VT 2600 Creative Imaging (3)
Required of students pursuing a Visual Technologies or Information Technology emphasis, or a Computer and Information Technology degree, and open to other interested students. Hands-on introduction to computer photo-manipulation and designing graphics on the computer, emphasizing tools and techniques used for editing and retouching photographs and creating original images with photo-like qualities for use in advertising, web publishing, and interactive multimedia projects. Assignments require access to specific programs on either Macintosh or Windows platforms. Course fee required. Prerequisite: VT 1300 (Grade C- or higher). FA, SP, SU

VT 2700 Typography (3)
For students pursuing an emphasis in Visual Technologies or other Computer & Information Technology degree; as well as other interested students. Covers how to use type as a basic element of graphic communication, how the use of different typefaces visually communicate a desired effect, and fundamental terminology of type specification. Course fee required. Prerequisite: VT 2500 (Grade C- or higher). FA, SP

VT 3000 Internet Publishing & Design (3)
Required of students pursuing a Visual Technologies emphasis or Computer and Information Technology degree, and open to other students with advanced skills in Web development. Covers Internet publishing and design principles, including interface design, PHP scripting, intermediate and advanced HTML (Hypertext Markup Language) techniques, Cascading Style Sheets, XML (Extensible Markup Language), JavaScript, QuickTime Virtual Reality (QTVR), and other advanced web publishing tools. Course fee required. Dual listed with CS 3000 (students may only take one course for credit). Prerequisites: CS 1400 (Grade C- or higher); AND VT 1400 (Grade C- or higher); AND VT 2500
(Grade C- or higher); AND VT 2600 (Grade C- or higher). FA, SP

VT 3060 Dig Commercial Studio Photog (3)

Studio class for art students and others interested in further digital photography experiences. Includes work on individual studio lighting projects while gaining professional insights in studio photography and photo art direction. Students will work on multiple projects simultaneously. Dual listed with ART 3060 (students may only take one course for credit). Course fee required. Prerequisite: ART 1020; or ART 1050; or ART 1110; or ART 2060; or VT 2060. Offered based on sufficient student need.

VT 3100 Interactive Multimedia (3)

Required of students pursuing a Visual Technologies emphasis or Computer and Information Technology degree, and open to other students interested in multimedia. Introduces hardware and software used to integrate text, sound, graphics, animation, and video into rich-content multimedia projects using various computer-based disciplines, including graphic design, digital video, interface elements, and light OOP-structured scripting. Successful students will be able to develop professionally designed interactive multimedia interfaces with rich content. Assignments require access to specific programs on either Macintosh or Windows platforms. Course fee required. Dual listed with CS 3100 (students may only take one course for credit). Prerequisites: CS 1400 (Grade C- or higher); AND VT 2500 (Grade C- or higher); AND VT 2600 (Grade C- or higher). FA, SP

VT 3200 Portfolio Preparation (3)

For students pursuing an emphasis in Visual Technologies; also open to other interested students. Students solve design problems by designing for commercial media, including proper typography and type as a graphic element, including project management. Course fee required. Prerequisites: VT 2600 (Grade C- or higher); AND VT 2700 (Grade C- or higher). SP

VT 3300 Intro to Digital Video Editing (3)

For students pursuing an emphasis in Visual Technologies; also open to other interested students. Introduces essentials of editing video and audio with computers, including TV/video production applications, multimedia authoring, and/or Internet video streaming. Also includes digitizing video and audio from analogue or digital sources, selecting footage from source clips, constructing transitions, titling, creating and using alpha channel or other matte techniques, plus other special effects. Course fee required. Prerequisite: VT 2500 (Grade C- or higher); AND VT 2600 (Grade C- or higher). SP

VT 3600 3-D Visualization (3)

For students pursuing an emphasis in Visual Technologies; also open to other interested students. Introduces three-dimensional modeling and rendering techniques on the computer, including various modeling processes, defining and applying textures, assembling scenes, and rendering images, which are applicable to realistic package and product designs, as well as exciting graphics for desktop or Internet publishing projects. Assignments require access to specific programs on either Macintosh or Windows platforms. Course fee required. Prerequisites: VT 2500 (Grade C- or higher); AND VT 2600 (Grade C- or higher). FA

VT 3650 3-D Animation (3)

For students pursuing an emphasis in Visual Technologies; also open to other interested students. Companion course to VT 3600, covers aspects of 3D animation design, story boarding, character development, and animation rendering of 3D models suitable for broadcast or composite video use. Maya 3D software will be used to create multiple short animation projects individually and in teams. Includes rigid/soft body animation solvers, dynamic particles, deformation and effects fields, IK/FK rigging, and multi-frame rendering output, use of keyframes, ease in/ease out controls, the timeline, realistic modeling techniques, set lighting, shadows, multi-layer surfacing, photorealistic rendering, and video formats for final output. Course fee required. Prerequisites: VT 3600 (Grade C- or higher). SP

VT 3700 Business for Graphic Designers (3)

For students pursuing an emphasis in Visual Graphic Design; also open to other interested students. Covers business procedures and practices related to graphic design, including professional / client relationships, time management, job cost analysis, contracts, general business management skills, marketing and business planning. Course fee required. Prerequisite: VT 1300 (Grade C- or higher). Offered based on sufficient student need.

VT 3710 Advanced Typography (3)

For students pursuing an emphasis in Visual Technologies, as well as other interested students. Covers typography as a functional and experimental medium. Students develop typographic solutions that explore verbal/visual messages in designs for publication through design problem-solving for a diverse range of specifications, including audience, client needs, and budget constraints, using traditional and digital tools. Course fee required. Offered in rotation with VT 4700; consult class schedule. Prerequisite: VT 2700 (Grade C- or higher). FA

VT 3750 Graphic Design History (3)

For students pursuing an emphasis in Visual Technologies, as well as other interested students. Thematic approach to Graphic Design history, including pioneering designers, design from other cultures and countries, graphic design artifacts, and the historical context for these topics. Projects, discussions, and written assignments will build critical thinking skills. Course fee required. Prerequisite: VT 2700 (Grade C- or higher). Offered based on sufficient student need.

VT 3780 Prepress & Print Production (3)

For students pursuing an emphasis in Visual Technologies; also open to other interested students. Covers the impact of desktop publishing and digital imaging on the prepress industry, including input and output, correct creation of digital files, data storage, proofing methods, relevant terminology, and communication with prepress and printing professionals. Field trips to printers and other prepress service providers reinforce lectures and projects. Course fee required. Prerequisites: VT 2500 (Grade C- or higher); AND VT 2600 (Grade C- or higher). SP

VT 3800 Corporate Identity (3)

For students pursuing an emphasis in Visual Technologies; also open to other interested students. Explores the history, psychology and purpose of corporate identity programs and the role of communication design in the current corporate environment by analyzing, investigating, and reporting on current company corporate objectives and target markets and then designing a sound multifaceted identity program. Course fee required. Prerequisite: VT 2500 (Grade C- or higher). FA

VT 4000 Dynamic Web Development (3)

Required of students pursuing a Visual Technologies emphasis, or a Computer and Information Technology degree; and open to other interested students. Covers dynamic web development using PHP and MySQL, including basic scripts and functions, variables, form processing, server side includes, web database integration, database design, database driven web sites, security, and web management systems. Course fee required. Dual listed with CS 4000 (students may only take one course for credit). Prerequisite: VT 3000 (Grade C- or higher). FA, SP

VT 4010 Interactive Web Development (3)

For students pursuing a degree in Computer Science or Computer Information Technology. Also open to other interested students. Covers client-side JavaScript web development, including form validation, interactive web page development, DOM manipulation, client-side applications, and interaction with server-side applications. Course fee required. Dual listed with CS 4010 (students may only take one course for credit). Prerequisites: CS 1410 (Grade C- or higher); AND VT 3000 (Grade C- or higher). FA
For students pursuing an emphasis in Visual Technologies; also open to other interested students. Covers integration and application of multiple media with appropriate delivery systems with emphasis on real-world projects using the full repertoire of graphics software to develop portfolio projects. Successful completers will create high production value, content-rich projects. Course fee required. Dual listed with CS 4100 (students may only take one course for credit). **Prerequisite:** VT 3100 (Grade C- or higher). Offered based upon sufficient student need.

**VT 4600 Senior Project (3)**

Required of students pursuing an emphasis in Visual Technologies. Emphasizes application of skills to commercial projects through design of or contribution to various private sector or college Internet projects, print, and multimedia projects. Includes portfolio development. Course fee required. **Prerequisites:** Senior standing. SP

**VT 4700 Publication Design (3)**

For students pursuing an emphasis in Visual Technologies; also open to other interested students. Explores creative, functional, and aesthetic aspects of editorial design with emphasis on page layout in order to understand the significance of consistency and thematic continuity; develop aesthetic awareness; integrate design principles, color and typographic theory; develop visual judgment in the arrangement of type and images to effectively convey visual messages. Course fee required. **Prerequisites:** VT 2600 (Grade C- or higher); AND VT 2700 (Grade C- or higher). Offered in rotation with VT 3710; consult class schedule.

**VT 4750 Package Design (3)**

For students pursuing an emphasis in Visual Technologies; also open to other interested students. Application of design principles in 3-D form by creating containers for a variety of products; emphasizes promotion, point of purchase, impact, construction, display, and design function of the design while understanding market studies on design impact and effectiveness through the production of 3-D prototypes. Course fee required. **Prerequisites:** VT 2600 (Grade C- or higher); AND VT 2700 (Grade C- or higher). Offered based on sufficient student need.

**VT 4900 Independent Research (1 - 3)**

For students pursuing an emphasis in Visual Technologies with advanced standing who wish to pursue a specific focus of study related to their degree emphasis and/or research interest not otherwise available in the current Visual Technologies curriculum. Students are closely supervised by appropriate faculty in the design and successful completion of the course. The course is dependent upon a formal contractual arrangement with the faculty member that is submitted at the beginning of the semester in which coursework is undertaken, and is contingent upon the department chair’s approval. Students meet with the faculty mentor each week and provide progress reports for feedback. Students are required to meet the college requirement of 45 hours of work per credit. Variable credit 1.0 – 3.0. Repeatable up to 6 credits subject to graduation restrictions. Course fee required. **Prerequisite:** Instructor permission. Offered by arrangement.

**VT 4910 Senior Graphic Design Exhibit (3)**

Required of students pursuing an emphasis in Visual Technologies. Under instructor, students collaborate to plan, design, and host an exhibit or create a self-promotion project which features their work to members of the design community with the goal of gaining post-graduation employment. Course fee required. **Prerequisites:** Senior standing; AND Instructor permission. Offered based upon sufficient student need.

**VT 4920 Internship (1 - 3)**

Internship course in Visual Technologies. Course fee required. Variable credit 1.0 – 3.0. Repeatable up to 6 credits subject to graduation restrictions. **Prerequisite:** Instructor permission. Offered by arrangement.