ACCOUNTING (ACCT)

ACCT 1010 Applied Business Accounting 2.00 CR
For non-accounting majors. This course introduces the student to basic bookkeeping practices and procedures, taking them through the complete accounting cycle for hospitality and service companies. 2 lecture hours per week.

ACCT 1800 Accounting Work Experience 1.00 - 3.00 CR
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. Full section.

ACCT 1810 Accounting Work Experience 1.00 - 3.00 CR
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. Spring section.

ACCT 1820 Accounting Work Experience 3.00 CR
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. Summer section.

ACCT 2010 Financial Accounting 3.00 CR
For business and accounting majors. This course introduces the basic concepts of financial accounting. Coverage includes the complete accounting cycle for service and merchandising companies. Depreciation, accounts receivable, and inventory are just a few of the topics covered in this class. 3 lecture hours per week.

ACCT 2020 Managerial Accounting 3.00 CR
For business and accounting majors. This is an introductory course to managerial accounting principles. Coverage includes product costing, cost-volume-profit analysis, profit planning, capital budgeting, and financial statement analysis. Prerequisites: ACCT 2010, CIS 1200. 3 lecture hours per week.

ACCT 2100 Computer Accounting QuickBooks 1.00 CR
For accounting majors and others wanting to learn small business accounting on the IBM computer. Topics covered include: Accounts Receivable and Billing, Purchasing and Accounts Payable, Payroll, Job Costing and Reporting. Prerequisites: ACCT 1010 or ACCT 2100. 1 lecture hour per week.

ACCT 3000 Accounting for Management 4.00 CR
This course introduces the basic concepts and principles of financial and managerial accounting. Coverage includes the complete accounting cycle for service and merchandise companies. Depreciation, accounts receivable, inventory, product costing, cost-volume-profit analysis, profit planning, capital budgeting, and financial statement analysis are just a few of the topics covered. Prerequisites: CIS 2010 or equivalent and admission to Dixie State College Aviation Management baccalaureate program. 4 lecture hours per week.

ACCT 3010 Intermediate Accounting I 3.00 CR
Designed for students majoring in business who would like an emphasis in accounting. Course covers the 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. Prerequisites: Acct 2020 and advanced standing in the business baccalaureate program. 3 lecture hours per week.

ACCT 3020 Intermediate Accounting II 3.00 CR
Continuation of Intermediate Accounting I. Course 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; accounting for equity transactions including capital stock issuance and reacquisition, stock rights and options, and dividends. Prerequisites: ACCT 3010 and advanced standing in the business baccalaureate program. 3 lecture hours per week.

ACCT 3500 Accounting Information Systems 3.00 CR
Develops information systems concepts in the operational, strategic, and decision making roles of management. Studies information systems solutions to business problems. Accounting systems concepts fundamental to the support of business processes. Topics include: 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. Prerequisites: ACCT 2020, CIS 2010, (can be concurrently enrolled in these courses), and advanced standing in the business baccalaureate program. 3 lecture hours per week.

ACCT 3300 Cost Accounting 3.00 CR
Course covers the analysis of costs in a business organization for both internal and external use by management. Topics include: job order and product costing, standard variances analysis, profit performance analysis, labor costing, cost-volume-profit analysis, budgeting, and capital building. Prerequisites: ACCT 2020 and advanced standing in the business baccalaureate program. 3 lecture hours per week.

ACCT 3400 Tax Accounting I 3.00 CR
This course covers current federal and state income tax laws and the preparation of individual income tax returns. Emphasis is on analysis and interpretation of tax rules and their practical application. Students will also develop the ability to research tax laws and rules. Prerequisites: ACCT 3010 and advanced standing in the business baccalaureate program. 3 lecture hours per week.

ACCT 3600 Accounting Practicum 3.00 CR
This course is designed to provide Accounting students with an experiential learning environment that will place them in real-life, small business practice settings similar to post-graduation employment. Students will use leading Accounting software to provide financial statement preparation and analysis, tax compliance and planning, and application of audit techniques. Prerequisites: ACCT 3400 and advanced standing in the business baccalaureate program. 3 lecture hours per week.

ACCT 4030 Advanced Accounting 3.00 CR
Corporation acquisitions, mergers and the formation of other strategic alliances are staples of today’s business environment. The objective of the first two-thirds of this course is to provide students with an understanding of the nature and financial reporting aspects of these complex business transactions. Specific topics include accounting for business combinations and consolidations, joint ventures and foreign currency translations and segment reporting. The final third of the course is intended to provide students with a general understanding of the unique accounting and financial reporting issues facing not-for-profit organizations and governmental entities. Prerequisites: ACCT 3020 and advanced standing in the business baccalaureate program. 3 lecture hours per week.

ACCT 4100 Auditing 3.00 CR
Study of auditing standards, internal accounting, control systems, compliance and substantive audit procedures applied to accounts and transaction cycles, and audit reports. Review of the auditing concepts of materiality and risk, types of evidence and documentation, and an introduction to the ethical and legal responsibilities of the Certified Public Accountant. Prerequisites: ACCT 4030 and advanced standing in the business baccalaureate program. 3 lecture hours per week.

ACCT 4400 Tax Accounting II 3.00 CR
This course examines the concepts and methods of determining the federal tax liability of corporations, S-corporations, partnerships, estates, and trusts. Special attention is given to the application of the law through the use of leading electronic
practitioner research tax databases and tax return preparation software. Successful completers should be qualified to prepare federal tax returns for small businesses, estates, and trusts. Prerequisites: ACCT 3400 and advanced standing in the business baccalaureate program. 3 lecture hours per week.

ACCT 4890 Accounting Internships I 1.00 - 3.00 CR
Prerequisites: ACCT 2020 and advanced standing in the business baccalaureate program and instructor permission required.

ACCT 4891 Accounting Internships II 1.00 - 3.00 CR
Prerequisites: ACCT 4890 and advanced standing in the business baccalaureate program and instructor permission required.

ANTHROPOLOGY (ANTH)

ANTH 1000 Intro to Anthropology *SS 3.00 CR
For all students wishing to fulfill the general education and social science requirement. Teaches 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. A lecture course that may include guest speakers, films, other media, writing assignments, specialized reading assignments, and examinations. 3 lecture hours per week.

ANTH 2990 Seminar in Anthropology 0.50 - 3.00 CR
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.

ART (ART)

ART 1010 Intro to Art *FA 3.00 CR
For all students interested in art with or without an art program emphasis. Designed to help students develop a greater appreciation of art. Includes identification of major art forms, a brief survey of art history, investigation of art criticism, the introduction of various media, and identification of elements and principles of art. Uses lecture, slides, art reproductions. Fulfills a general education fine arts requirement. 3 lecture hours per week.

ART 1050 Intro to Photography 3.00 CR
For students with an emphasis in art, and for all students interested in basic photographic technique and principles. Course will cover image, lighting, composition, basic camera operation and darkroom lab work. The class is designed as a hands-on learning experience, and allows the student to explore in their specific areas of interest. Includes lectures, demonstrations, and studio practice labs. By the end of the course, successful students will have enough technical knowledge to allow them to explore more fully the potential of the camera. Some out-of-class shooting assignments are required, as well as in-class assignments. Is a prerequisite to ART 2050. Fees required. 3 lecture hours per week.

ART 1100 Intro to Design *FA 3.00 CR
For students with an interest in art with or without an art program emphasis. Special emphasis on graphic arts, interior design, computer art, photography, architecture, etc., and for students seeking to fill fine arts requirements. Teaches students the principles and elements of design. Uses lectures, slide presentations, videos and studio experience. Fills fine arts general education requirements in both AA/AS degrees. Lab fees required. 3 lecture hours per week.

ART 1110 Basic Drawing and Composition 3.00 CR
A required class for students with an emphasis in art, and other students interested in drawing. Stresses creativity, the fundamentals of image-based drawing and composition. Various techniques with black and white, and color media will be investigated. Includes lectures, demonstrations, and studio practice labs. By the end of this course, students should have an understanding of the elements of composition, and have developed basic drawing skills. Is a prerequisite to Art 2110. Fees required. 6 lab hours per week.

ART 1120 Two-Dimensional Design 3.00 CR
A required foundation class for art majors and the recommended class for students in architecture, graphic arts, computer and interior design. Teaches students the principles and elements of two-dimensional design, critical thinking, and analysis. Uses lectures, slide presentations, videos and studio exercises. Fee required. 3 lecture hours per week.

ART 1130 Three Dimensional Design 3.00 CR
A required class for students with an emphasis in art, and for all students interested in art. Reviews fundamental design principles and techniques. Students will acquire a working knowledge of various design methods and their relationship to the conceptualization, development, and completion of three-dimensional design projects. Critical thinking and analysis will be stressed. No prerequisite required. Fee required. 3 lecture hours per week.

ART 1800 Art Work Experience 1.00 - 3.00 CR
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. Fall section.

ART 1810 Art Work Experience 1.00 - 3.00 CR
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. Spring section.

ART 1820 Art Work Experience 1.00 - 3.00 CR
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. Summer section.

ART 2050 Intermediate Photography 3.00 CR
For students with an emphasis in art, and for more experienced photography students. Studio lighting, large format cameras, special effects, and advanced lab techniques will be explored. Students will be encouraged to expand the area of their knowledge through problems and assignments decided between the individual student and the teacher. Includes lectures, demonstrations, and studio practice labs. Students are encouraged to work towards creating a portfolio of images. Course fee required. 6 lab hours per week.

ART 2060 Digital Photography 3.00 CR
Digital photography is an introductory class in the history, mechanics and applications of digital photography as well as basic photographic techniques and compositional skills. Course objectives will be met through a combination of lectures, viewing the work of master photographers, class assignments and in-class critiques of student work. 3 lecture hours per week.

ART 2110 Intermediate Drawing 3.00 CR
For students with an emphasis in art, and for more experienced drawing students. Development of the concepts and skills necessary for expressive drawing. Emphasis
will be on design, composition, the development of a personal mode of expression, and appreciation of master drawings and contemporary art forms. Includes lectures, demonstrations, and studio practice labs. Course fees required. 6 lab hours per week.

**ART 2190 Intro to Sculpture 3.00 CR**
For students with an emphasis in art, and for more experienced three-dimensional design students. Teaches methods of sculpting with emphasis on design and self-expression. Critical thinking and analysis will be stressed. Uses lectures, slide presentations, videos, guest lecturers, field trips to sculptors’ studios and studio practice. This class fills requirements for art majors. Is a prerequisite to ART 3190. Course fees required. 6 lab hours per week.

**ART 2210 Intro to Oil Painting 3.00 CR**
For students with an emphasis in art, and for more experienced oil painting students. Various techniques will be explored and incorporated by students into their individual styles. Includes lectures, demonstrations, and studio practice labs. Those completing the course should be able to paint recognizable images, and be qualified to continue at a university. Course fee required. Is a prerequisite to ART 3210. 6 lab hours per week.

**ART 2250 Intro to Watercolor 3.00 CR**
For students with an emphasis in art, and for more experienced watercolor students. Exploration of creative approaches to watercolor painting. Emphasis on individual image painting and experimentation. Strong use of additive/subtractive elements of painting. Includes lectures, demonstrations, and studio practice labs. Is a prerequisite to ART 3250. Course fees required. 6 lab hours per week.

**ART 2270 Phenomenon of Color 3.00 CR**
The Phenomenon of color explores various color theory, it’s interpretations and numerous applications in the visual arts and design media. Special emphasis will be placed on knowledge of color interaction, applied color skills, optical phenomena and development of creative process and use of media. 3 lecture hours per week.

**ART 2410 Intro to Life Drawing 3.00 CR**
For students with an emphasis in art, and for more experienced students interested in drawing the human form. Various drawing techniques will be explored, with emphasis on greater accuracy in anatomical structure and form. Includes lectures, demonstrations, and studio practice labs. Is a prerequisite to ART 3410. Course fees required. 6 lab hours per week.

**ART 2420 Intro to Portrait 3.00 CR**
For students with an emphasis in art, and for more experienced portrait students. Various pastel painting techniques will be explored. Includes lectures, demonstrations, and studio practice labs. Those completing the course should be able to capture a good likeness with realistic color. Is a prerequisite to ART 3420. Course fees required. 6 lab hours per week.

**ART 2570 Intro to Ceramics 3.00 CR**
For students with an emphasis in art, and for all students interested in learning about and creating ceramics. Covers various methods of creating in clay with emphasis on throwing, hand building, decorating and glazing; also stresses the history of ceramics and contemporary ceramics. Uses lectures, slide presentations, videos, demonstrations, test reading assignments and studio practice. Course fee required. 6 lab hours per week.

**ART 2900 Studio Practice 1.00 - 4.00 CR**
For students who have taken all the art classes in their area of emphasis or who desire in-depth study in specialized areas. The instructor approves all course work, which is individualized and is based on written goals and objectives established by the student. Art 2900 is also used for credit in group field trips. Helps students appreciate and refine art skills. Gives the student opportunities to see masterpieces of art which develops aesthetic appreciation plus critical and analytical skills. Prerequisite: Instructor permission. 1 lecture hour and variable lab hours per week.

**ART 2990 Seminars in Art 0.50 - 3.00 CR**
For students seeking 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.

**ART 2991 Seminar in Art 0.50 - 3.00 CR**
For students seeking 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. May be repeated for additional credit.

**ART 3050 Advanced Photography 3.00 CR**
Introduction to studio practices and lighting. Includes portraits, commercial, product, and editorial skills. Portfolio preparation. Course fee required. Prerequisite: ART 2050. 6 lab hours per week.

**ART 3060 Dig Com Studio Photography 3.00 CR**
Digital Commercial Studio Photography is a lecture and studio experience that supports formal art and design training, allowing students to work on individualized studio lighting projects while gaining professional insights in studio photography and photo art direction. Students will choose from a range of project topics that are intended to develop their skills. They will be working on multiple projects simultaneously (as reflected in a real world studio environment), and, at any stage of any of those projects, be able to receive critiques and guidance from the instructor. 2 lecture and two lab hours per week.

**ART 3110 Creative Perspective Drawing 3.00 CR**
Creative Perspective Drawing is a course designed for students with basic drawing skills desiring more individualized conceptual and subject variation. Course fee required. Prerequisite: ART 2110. 6 lab hours per week.

**ART 3130 3D Design II 3.00 CR**
A required class for students with an emphasis in art, and for all students interested in art. Reviews fundamental design principles and techniques. Students will acquire a working knowledge of various design methods and their relationship to the conceptualization, development, and completion of three-dimensional design projects. Critical thinking and analysis will be stressed. Course fee required. 3 lecture and 1 lab hour per week.

**ART 3190 Intermediate Sculpture 3.00 CR**
For students with an interest in art, and for more experienced three-dimensional design students. Teaches methods of sculpting with emphasis on design and self-expression. Critical thinking and analysis will be stressed. Uses lectures, slide presentations, videos, guest lecturers, field trips to sculptors’ studios and studio practice. This class fills requirements for art majors. Prerequisite: ART 2190. 6 lab hours per week.

**ART 3210 Head and Figure Painting 3.00 CR**
This course is for art majors and non-majors who are interested in portrait and figure drawing. The course would also benefit students interested in illustration, visual technologies, gallery, and portrait painting. Students learn how to construct a painting, the steps and techniques, which include: drawing shapes; using size, angle, and position; drawing values; applying colors---dark, middle, light. The course teaches the set-up for gallery paintings or illustration and the business of making a living in art. Course instruction includes lecture and instructor demonstrations. The student will produce approximately 8 paintings for criticism. Course completers should be able to paint a portrait showing a likeness and be prepared for further study in Illustration, VT work, or studio painting. Prerequisites: ART 2210. Course fee required. 6 lab hours per week.
Course Descriptions

ART 3250 Intermediate Watercolor 3.00 CR
Exploration of creative approaches to watercolor painting. Emphasis on individual image painting and experimentation. Strong use of additive/subtractive elements of painting. Includes lectures, demonstrations, and studio practice labs. Prerequisite: ART 2250. Course fee required. 6 lab hours per week.

ART 3410 Intermediate Life Drawing 3.00 CR
For students with an interest in art, and for more experienced students interested in drawing the human form. Various drawing techniques will be explored, with emphasis on greater accuracy in anatomical structure and form. Includes lectures, demonstrations, and studio practice labs. Prerequisite: ART 2410. Course fee required. 6 lab hours per week.

ART 3420 Intermediate Portrait Drawing 3.00 CR
For students with an interest in art, and for more experienced portrait students. Various pastel painting techniques will be explored. Includes lectures, demonstrations, and studio practice labs. Those completing the course should be able to capture a good likeness with realistic color. Course may be repeated for additional credit. Prerequisite: Art 2420. Course fees required. 6 lab hours per week.

ART 3430 Media Experimentation 3.00 CR
This course will entail an exploration of drawing, painting, sculpture, and photo-computer media. Processes will result in new and innovative works. 2-D, 3-D, and installations will be presented. Course fee required. Prerequisite: ART 2270 or instructor’s permission. 2 lecture hours and 2 studio hours per week.

ART 3570 Intermediate Ceramics 3.00 CR
For art majors and other students interested in the ceramic arts. This course is an advanced continuation of ceramics studies. It emphasizes wheel and hand-built works enhancing size, shape, construction, decoration, form, and function. Studies in professional work and glaze calculation will be explored. Includes studio lab work, demonstration, and lecture. Upon completion, students will have exhibit quality ceramic work, they will also be prepared to continue on to ART 4570 - Ceramics IV. Prerequisite: ART 2570. Course fee required. 6 lab hours per week.

ART 3990 Seminar in Art 0.50 - 3.00 CR
For students seeking 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.

ART 4110 Expressive Drawing 3.00 CR
The objectives of this class are to explore the principles of linear perspective, space, and composition application. Course fee required. Prerequisite: ART 3110. 6 lab hours per week.

ART 4190 Advanced Sculpture 3.00 CR
For students with an interest in art, and for more experienced three-dimensional design students. Teaches methods of sculpting with emphasis on design and self-expression. Critical thinking and analysis will be stressed. Uses lectures, slide presentations, videos, guest lecturers, field trips to sculptors’ studios and studio practice. This class fill requirements for art majors. Prerequisite: ART 3190. 6 lab hours per week.

ART 4210 Adv Head and Figure Painting 3.00 CR
This course is a continuation of ART 3210. The course would also benefit students interested in illustration, visual technologies, gallery, and portrait painting. Students learn how to construct a painting, the steps and technologies, which include: drawing shapes; using size, angle, and position; drawing values; applying colors—dark, middle, light. The course teaches the set-up for gallery paintings or illustration and the business of making a living in art. Course instruction includes lecture and instructor demonstrations. The student will produce approximately 8 paintings for critique. Course completers should be able to paint a portrait showing a likeness and be prepared for further study in illustration, VT work, or studio painting. Prerequisite: ART 3210. Course fees required. 6 lab hours per week.

ART 4220 Advanced Painting, Landscape 3.00 CR
With landscape as its subject, the class will concentrate on form and structuring ideas for proper expression of visual literacy. If weather permits on site (plein air) painting. Course fee required. Prerequisite: ART 2210. 3 lecture hours and 1 lab hour per week.

ART 4250 Advanced Watercolor 3.00 CR
Exploration of formal, technical and conceptual problems in water media, for students with painting experience. Emphasis on gaining proficiency in both transparent and opaque watercolor techniques. Course fee required. Prerequisite: ART 3250. 6 lab hours per week.

ART 4410 Advanced Life Drawing 3.00 CR
For students with an interest in art, and for more experienced students interested in drawing the human form. Various drawing techniques will be explored, with emphasis on greater accuracy in anatomical structure and form. Includes lectures, demonstrations, and studio practice labs. Prerequisite: ART 3410. Course fee required. 3 lectures and 1 lab hours per week.

ART 4570 Advanced Ceramics 3.00 CR
For art majors and other students interested in the ceramic arts. This course is an advanced continuation of ceramics studies. It emphasizes wheel and hand-built works enhancing size, shape, construction, decoration, form, and function. Advanced studies in professional work and glaze calculation will be required. Includes studio lab work, demonstration, lecture and portfolio work. Upon completion, students will have a series of exhibit ready ceramic work, and will also be prepared for life as an artist. Course may be repeated for additional credit. Prerequisite: ART 3570. Course fee required. 6 lab hours per week.

ART 4590 Art Internship 1.00 - 3.00 CR
This course is designed for art integrated studies majors to be taken either junior or senior years. The course will expose students to professional art affiliations inclusive of art museums, galleries, artist studios and various art groups and committees. This will increase the students’ competency and initiation networking in the arts. Instructor permission required. Prerequisite: Any upper-division studio Art course. Variable 3-9 lab hours per week.

ART 4990 Seminar in Art 0.50 - 3.00 CR
For students seeking 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.

ART HISTORY (ARTH)

ARTH 2710 Art History I *FA 3.00 CR
For all students interested in art theory. An art historical study ranging from the prehistoric through the classical periods, early Christian to the end of the 15th Century. This course will cover the art, culture, and documentary history of specific nations and peoples. All aspects of visual art will be discussed, from painting to sculpture to architecture to clothing in details of religion, war, customs and everyday living. These early forms of imagery provide knowledge about contemporary society as a product of the past. 3 lecture hours per week.

ARTH 2720 Art History II *FA 3.00 CR
For all students interested in art theory. An art historical study ranging from the works of the great Renaissance masters and their accomplishments in perspective, value and composition through the Baroque period of artistry, to the Neo-classic, Romantic, Impressionist, early Modern, Pop, to the present. All aspects of visual art
will be covered including various media and photography’s influence on 20th century art and expression. Emphasis will also be placed on the art work of contemporary artists of color and women artists. 3 lecture hours per week.

ACADEMIC SUPPORT CENTER (ASC)

ASC 1001 First Year Experience 1.00 CR
This course is required for all entering freshmen, and is recommended for transfer students with 0-24 credits. The course is designed to help student 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. 2 lab hrs per week.

ASC 1020 Success Skills 1.00 CR
For all 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 note-taking, preparing for and taking tests. Through notebooks, projects and class goals, students will demonstrate improvement in the aforementioned skill areas. 1 lecture hour per week.

ASC 2990 Seminar in Academic Support 0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, 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 elective and does not fulfill general education or program requirements. Prerequisite: Instructor permission. Some seminar courses may require fees.

AMERICAN SIGN LANGUAGE (ASL)

ASL 1010 Beg American Sign Lang I *FL 4.00 CR
For beginning students interested in the American Sign Language. Emphasizes principles, methods, and techniques of communicating manually with deaf individuals. Teaches basic receptive and expressive skills. Also, overviews basic grammatical structure in signing. A variety of teaching methods are employed, including drills, videos, and work in pairs. This course, along with one other ASL course, will partially qualify students to receive an Associate of Arts degree. Successful completers are prepared to take ASL 1020. 4 lecture hours per week.

ASL 1020 Beg American Sign Lang II *FL 4.00 CR
For students interested in American Sign Language who have completed ASL 1010 or who have equivalent experience. Students using 1020 as an entry level class may receive vertical credit for the beginning level classes if they receive a C grade or higher. Continued emphasis on communicative competence, including both expressive and receptive abilities. This course, along with one other ASL course, will partially qualify students to receive the Associate of Arts degree. Successful completers are prepared to take ASL 2020. Prerequisite: ASL 1020 or instructor permission. 4 lecture hours per week.

ASL 2010 Inter American Sign Lang I *FL 4.00 CR
This course is taught fall semester only. For intermediate-level students who have taken ASL 1020, or for students who have had equivalent experience (four or more years of high school ASL). Normally, students who have had extended contact with ASL uses may begin the ASL instruction at the intermediate levels and receive vertical credit for the beginning level classes if they receive a C grade or higher. Continued emphasis on communicative competence, including both expressive and receptive abilities. This course, along with one other ASL course, will partially qualify students to receive the Associate of Arts degree. Successful completers are prepared to take ASL 2020. Prerequisite: ASL 1020 or instructor permission. 4 lecture hours per week.

ASL 2020 Inter Ameri Sign Lang II *FL 4.00 CR
This course is taught spring semester only. For intermediate-level students who have taken ASL 2010. Normally, students who have had extended contact with ASL uses may begin their ASL instruction at the intermediate levels and receive vertical credit for the beginning level classes if they receive a C grade or higher. Continued emphasis on communicative competence, including both expressive and receptive abilities. This course, along with one other ASL course, will partially qualify students to receive the Associate of Arts degree. Prerequisite: ASL 2010 or instructor permission. 4 lecture hours per week.

ASL 2990 Seminar in Am. Sign Language 0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, 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 elective and does not fulfill general education or program requirements. Prerequisite: Instructor permission.

AUTOMOTIVE (AUTO)

AUTO 1100 Automotive Fundamentals 3.50 CR
Automotive Fundamentals leads students through the design, construction, and operation of all major automotive systems. It is intended for those who need a solid foundation in the basics of automotive technology. The information in this course will be easy to understand and applicable to most vehicles. Each automotive system will be explained starting with the basic function and progressing through operation of the individual components making up the system. Automotive fundamentals will promote pride in the trade and awareness of the importance of the certified automobile technician. No tools are required. 3 lecture and 1 lab hour per week.

AUTO 1120 Suspension & Steering 6.00 CR
This course is designed for Auto Technicians and other students interested in automotive suspension and steering repairs. Studies operation, diagnosis, adjustment and repair of various suspension and steering units and is instructed to Automotive Service Excellence (ASE) standards. Course curriculum includes: lab and lecture, guest speakers, audio/visual tapes, and hands on performance on vehicles. Completers should be able to pass ASE Certificate Test and should be able to work on Suspension & Steering systems for an entry level job. Lab is required. Minimal tools required. 4 lecture and 4 lab hours per week.

AUTO 1130 Brakes 6.00 CR
This course is designed for students interested in obtaining knowledge in brakes. It includes diagnosis and repair of brakes per ASE rules and regulations. Course content includes lecture and lab, audio/visual tapes, working on brakes and ABS systems. Minimal tools required. 4 lecture and 4 lab hours per week.

AUTO 1320 Engine Repair 6.00 CR
This course is designed for students interested in obtaining knowledge for engine repair. The course includes principles of construction and operation of the modern automotive engine and practical applications of repairing are instructed to ASE Standards. Course content includes: lab and lecture. A completer of this course should be able to pass ASE Certificate. Lab is required. Minimal tools required. 4 lecture and 4 lab hours per week.

AUTO 1430 Manual Trans & Drive Trains 6.00 CR
This course is designed for students interested in obtaining knowledge in manual transmission and drive trains. It includes diagnosis and repair of manual transmis-
Course Descriptions

This course involves testing and diagnostic skills in automotive computer and emission systems. Course also includes the study of heating and air conditioning units which involves testing and diagnosis of computerized electronic controls instructed to ASE standards. The course will allow students to be familiar with all makes of modern computer systems for domestic and foreign vehicles. Course content will be taught by lecture and lab, audio/visual aid, and hands on experience. Lab is required. Minimal tools required. 4 lecture and 4 lab hours per week.

AUTO 2330 Electronics/Heat/Air Condition 6.00 CR

This course involves testing and diagnostic skills in automotive computer and emission systems. Course also includes the study of heating and air conditioning units which involves testing and diagnosis of computerized electronic controls instructed to ASE standards. The course will allow students to be familiar with all makes of modern computer systems for domestic and foreign vehicles. Course content will be taught by lecture and lab, audio/visual aid, and hands on experience. Lab is required. Minimal tools required. 4 lecture and 4 lab hours per week.

AVIATION (AVIA)

AVIA 2170 Ground: Private Pilot 3.00 CR

Instruction in principles of flight, aircraft and engine operation, weather, navigation, radio aids to navigation, radio communications, and federal air regulations. Preparation for FAA Private Pilot written exam. 3 lecture hours per week.

AVIA 2180 Private Pilot License 3.00 CR

Instruction is available through any licensed instruction school. Additional fees based on the private instruction received. Pre or corequisite: AVIA 2170.

AVIA 2370 Ground: Instrument Pilot 2.00 CR

Ground school approved by FAA under part 141 of the Federal Aviation Regulations. Designed to prepare students to pass the FAA oral and written examinations required for becoming instrument rated pilots. Additional Fees: Instruction is available through any licensed instruction school. Prerequisites: AVIA 2170, AVIA 2180. 2 lecture hours per week.

AVIA 2380 Flight: Instrument Rating 2.00 CR

FAA approved flight training program introducing requirements for the issuance of the Instrument Pilot Airplane Rating. Additional Fees: instruction is available through any licensed instruction school. Prerequisites: AVIA 2170, AVIA 2180. Corequisite: AVIA 2370. 2 lecture hours per week.

AVIA 3010 Aviation Principles 3.00 CR

This course provides an overview of the basic principles and concepts of the aviation industry, both general and commercial. Topics covered will include the core principles of aviation history, industry, economics and business models (government regulated, legacy carrier, low-cost carrier, regional, foreign, etc.). Industry pricing and production principles will also be discussed. This course is a pre/co-requisite for all upper division aviation courses. Prerequisite: Admission to Dixie State College Aviation Administration baccalaureate program. 3 lecture hours per week.

AVIA 3015 Principles of Leadership 3.00 CR

This course covers the basic concepts and principles of effective leadership and introduces the student to a variety of practical tools for leadership development. Methodologies for creating, maintaining, and utilizing a business work culture will be covered. Students will also have an opportunity to exercise management decision-making skills and problem-solving techniques through the use of group discussions and up to date case analysis in relevant situations. Prerequisite: Admission to Dixie State College Aviation Management baccalaureate program. 3 lecture hours per week.

AVIA 3020 Aviation Regulations & Safety 3.00 CR

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 Dixie State College Aviation Management baccalaureate program. 3 lecture hours per week.
AVIA 3030  Aviation Law  3.00 CR
As one of the most regulated industries in the country, aviation requires a critical understanding of the legal regulations and policies that govern the industry. This course will explore the wide variety of regulatory agencies that are charged with industry oversight and the laws and policies they generate. The political perspectives of the airport/airline industry will also be covered, as well as organized labor relations in aviation. Prerequisite: Admission to Dixie State College Aviation Management baccalaureate program. 3 lecture hours per week.

AVIA 3040  Aviation Economics  4.00 CR
This course covers the 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. The course helps students understand and appreciate the ideas, processes, dynamics, and institutions that underlie the social and economic system and make the American economy work. Prerequisite: Admission to Dixie State College Aviation Management baccalaureate program. 4 lecture hours per week.

AVIA 3050  Aviation Finance  3.00 CR
An introduction to the administrative and financial aspects of aviation management. Topics include financial and accounting strategies, financial analysis and planning, budgeting, short, intermediate, and long term financing, leveraging, revenue and expense sources, economic impacts of aviation operations, etc. Aviation-related businesses are emphasized. Prerequisite: Admission to Dixie State college Aviation Management baccalaureate program. 3 lecture hours per week.

AVIA 3170  Ground: Commercial Pilot  2.00 CR
Commercial flight operations including performance, cross country planning, advanced systems operations, complex airplanes, and flight maneuvers. Additional Fees: instruction is available through any licensed instruction school. Prerequisites: AVIA 2170, AVIA 2180 and advanced standing in the business baccalaureate program. 2 lecture hours per week.

AVIA 3180  Commercial Pilot License  3.00 CR
Instruction is available through any licensed instruction school. Additional fees will apply. Prerequisites: AVIA 2170, AVIA 2180 and advanced standing in the business baccalaureate program. Pre or corequisite: AVIA 3170.

AVIA 4010  Aviation Accounting  3.00 CR
This course will focus on those accounting and financial principles that are unique to the aviation industry. Topics covered will include asset management, revenue management, debt financing, financial reporting requirements, regulatory accounting issues, aircraft maintenance management, and unique departmental accounting issues. Prerequisites: ACCT 3000 and admission to Dixie State College Aviation Management baccalaureate program. 3 lecture hours per week.

AVIA 4020  Aviation Marketing  3.00 CR
An examination of marketing strategies in the aviation industry. Students will develop an awareness of the nuances of successful marketing efforts in a broad spectrum of aviation-related environments. Topics will include advertising, public affairs, image/brand management, and business recruiting in both airline and airport settings. Prerequisites: AVIA 3010, MKTG 3010 and advanced standing in the business baccalaureate program. 3 lecture hours per week.

AVIA 4030  Aviation Law  3.00 CR
This course will cover the full spectrum of aviation management and will include topics on airport/airline management-related issues, airport/airline operations, general aviation/fixed base operations, customer service, aircraft maintenance, flight operations, and leadership development. Industry pricing and production principles will also be discussed with a focus on revenue management, supply/demand dynamics, utilization, and unit costs. Prerequisites: AVIA 3010, AVIA 3020, AVIA 3030, AVIA 4010, AVIA 4020 and advanced standing in the business baccalaureate program. 3 lecture hours per week.

AVIA 1001  Intro. to the Biology Major  1.00 CR
AVIA 1001 is an orientation course created to help students succeed in the biology major. It is also designed to help new freshmen and returning students to make a successful transition to being a college student. The primary objective of this course is to provide you with the resources you will need to succeed in your college career, particularly in your biology courses. 2 lab hours per week.

AVIA 1010  General Biology 1*LS  3.00 CR
An introductory course for non-science majors stressing general principles of Biology. Not accepted for science majors. Introduces cell theory, genetics, evolution, and interrelationships of living things. Uses a variety of teaching methods including lecture/discussion, laboratory, overheads, videos, quizzes and exams. Successful completion of the course should give students a greater understanding of the biological world. Satisfies prerequisites for BIOL 1200 and 2300. 3 lecture hours per week.

AVIA 1015  General Biology Lab  1.00 CR
This laboratory course is designed to accompany the BIOL 1010 lecture. Students will be given a variety of opportunities for hands-on experiences in a laboratory setting including, but not limited to, the use of microscopes, measurement and simple data analysis, observations of osmosis and diffusion, and other group activities. Students will be expected to complete written laboratory assignments. The successful student will gain an appreciation for the true essence of science and the scientific process of acquiring knowledge through inquiry-based assignments. Lab fee required. Co-requisite: BIOL 1010. 3 lab hours per week.

AVIA 1200  Human Biology  3.00 CR
For students seeking to fill a second course in the general education Biological science requirement, or students that need a 3 credit course for Paramedics that covers anatomy and physiology of the human. Designed for students not majoring in a biological science area. This course will stress 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. Successful completion of this course enables students to identify many body parts and describe many body functions. Prerequisites: BIOL 1010 or BIOL 1610. 3 lecture hours per week.

AVIA 1500  Intro to Biotechnology  3.00 CR
An introduction to biotechnology. Students will experience the direction of animal and plant culture as it relates to genetic engineering. Through lecture and laboratory exercises, students will be exposed to this new field of study. Prerequisite: AP High School Biology or BIOL 1610. 3 lecture hours per week.

AVIA 1505  Biotechnology Lab  1.00 CR
A laboratory course for BIOL 1500. Students will experience techniques in genetic recombination, isolating DNA, culture growth and instrumentation used in biotechnology. Lab fee required. 2 lab hours per week.

AVIA 1610  Principles of Biology I *LS  4.00 CR
An introductory course designed for Biology majors including pre-medical, pre-dental, pre-veterinary, nursing and other health professions students. Emphasis on concepts pertaining to the scientific method cell processes including basic chemistry, cellular level structure and function, and principles of inheritance, evolution and ecology. In-class or out-of-class written assignments may be given. Successful completion of the course enables students to fulfill general education requirements for Life Science and prepares students for subsequent coursework in the Biological Sciences. Satisfies prerequisites for BIOL 1050, BIOL 1200, BIOL 2010, BIOL 2030, BIOL 2110, BIOL 2300, BIOL 2400, BIOL 2440. Concurrent enrollment in lab section required; if students don’t take the lab course, the lecture course grade will not be recorded on the transcript. Prerequisite: ACT/CPT score of 19 or equivalent in Reading, or ENGL 1470. 4 lecture hours per week.

AVIA 1615  Principles of Biology I Lab  1.00 CR
A laboratory course to be taken concurrently with BIOL 1610. Lab fee required. 3 lab hours per week.
**Course Descriptions**

**BIOL 1620**  
*Principles of Biology II*  
4.00 CR  
A second course that satisfies the basic requirement for Biology majors including pre-medical, pre-dental, pre-veterinary, nursing and other health professions students. Emphasis on concepts pertaining to Evolution, diversity processes, animal structure and function, plant structure and function. In-class or out-of-class written assignments may be given. Successful completion of the course enables students to proceed with other biology courses with the basic preparation required at any transfer University. Concurrent enrollment in lab section required; if students don’t take the lab course, the lecture course grade will not be recorded on the transcript.  
Prerequisite: BIOL 1610. 4 lecture hours per week.

**BIOL 1625**  
*Principles of Biology II Lab*  
1.00 CR  
A laboratory course to be taken concurrently with BIOL 1620. Lab fee required. 3 lab hours per week.

**BIOL 1800**  
*Biology Work Experience*  
1.00 - 3.00 CR  
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. Fall section.

**BIOL 1810**  
*Biology Work Experience*  
1.00 - 3.00 CR  
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. Spring section.

**BIOL 1820**  
*Biology Work Experience*  
1.00 - 3.00 CR  
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. Summer section.

**BIOL 1910**  
*Life Science Internship I*  
1.00 - 8.00 CR  
For students who are granted and accept an internship that provides an extensive learning experience in the field of biology. Through arrangements with the department chair, a student may earn up to 8 credits per semester for satisfactory completion of terms of the internship. Permission of the Science Department Chair required.

**BIOL 1920**  
*Life Science Internship II*  
1.00 - 8.00 CR  
For students who are granted and accept an internship that provides an extensive learning experience in the field of biology. Through arrangements with the department chair, a student may earn up to 8 credits per semester for satisfactory completion of terms of the internship. Permission of the Science Department Chair required.

**BIOL 1930**  
*Life Science Internship III*  
1.00 - 8.00 CR  
For students who are granted and accept an internship that provides an extensive learning experience in the field of biology. Through arrangements with the department chair, a student may earn up to 8 credits per semester for satisfactory completion of terms of the internship. Permission of the Science Department Chair required.

**BIOL 1940**  
*Life Science Internship IV*  
1.00 - 8.00 CR  
For students who are granted and accept an internship that provides an extensive learning experience in the field of biology. Through arrangements with the department chair, a student may earn up to 8 credits per semester for satisfactory completion of terms of the internship. Permission of the Science Department Chair required.

**BIOL 2030**  
*Principles of Genetics*  
4.00 CR  
An introductory course in genetics required for all biology majors including pre-medical, pre-dental, and pre-veterinary students. Exploration of classical, molecular, and evolutionary genetics including, but not limited to, 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. Class requirements include a variety of problems and written assignments based upon the lectures and class discussions. Successful completion of the course gives students a firm understanding of basic genetics and makes them aware of the latest research in the field. Prerequisites: MATH 1010 and one of the following: BIOL 1010 or BIOL 1610. 4 lecture hours per week.

**BIOL 2060**  
*Principles of Microbiology*  
3.00 CR  
For biology majors, students in dentistry, medicine, and other pre-professional programs. Teaches essentials of microbiology including disease control, nomenclature, function of immune system, pathologies, causes and cures, genetic engineering, and laboratory methods for safely studying microorganisms. Uses a variety of teaching methods including lecture/discussion, laboratory, videos, overheads, quizzes and exams. Successful completion of the course gives students an understanding of microbes and their relationship to the human system and health. Laboratory will stress safety, sterile technique, methods of staining, preparing, culturing, and transferring microorganisms, and identification of an unknown. Concurrent enrollment in lab section required; if students don’t take the lab course, the lecture course grade will not be recorded on the transcript. Prerequisites: BIOL 1610, BIOL 1615. 3 lecture hours per week.

**BIOL 2065**  
*Principles of Microbiology Lab*  
1.00 CR  
A laboratory course to be taken concurrently with BIOL 2060. Prerequisites: BIOL 1610 and 1615. Lab fee required. 3 lab hours per week.

**BIOL 2220**  
*General Ecology*  
3.00 CR  
A course for applied and pure pre-plantsciences, biology, environmental hazardous materials technology, environmental sciences, natural resources, park naturalist, plant geography, range science, soil science, wildlife, weed control technology, and animal science majors. Teaches students the nature and development of Utah, United States, and world communities and their relations to the environmental factors controlling them. Covers organisms and their geographical distribution, interorganismic interactions, and speciation. Teaches ecological methods of study in aquatic and terrestrial ecosystems. This course prepares students to either enter the work force, summer employment or transfer into a bachelor’s degree program. Concurrent enrollment in lab section required; if students don’t take the lab course, the lecture course grade will not be recorded on the transcript. Prerequisites: BIOL 1610 and 1615 or instructor permission. 3 lecture hours per week.

**BIOL 2225**  
*General Ecology Lab*  
1.00 CR  
A laboratory course to be taken concurrently with BIOL 2220. Prerequisites: BIOL 1610 and 1615, or instructor permission. Lab fee required. 3 lab hours per week which includes frequent field trips.

**BIOL 2300**  
*Local Flora*  
3.00 CR  
For all students seeking to fill a second course in the general education life science requirement. Designed for students in elementary and secondary education, landscape architecture, biology, pharmacology, agriculture, agronomy, horticulture, biotechnology, natural resources, ecology, environmental biology, range science, resource management, wildlife, weed control technology, park naturalist, and other applied and pure plant science fields. Teaches how to collect and identify vascular plants using manuals. Allows a student to talk or write about plants, to discover medical or pharmaceutical use of plants, to choose garden or house plant, and make informed decisions. Successful completion of this course prepares students for biology and applied and pure pre-plant science degrees. Concurrent enrollment in lab section required; if students don’t take the lab course, the lecture course grade will not be recorded on the transcript. Prerequisite: BIOL 1010 or BIOL 1610/1615. 3 lecture hours per week.
BIOL 2310 Local Flora Lab 1.00 CR
A laboratory course to be taken concurrently with BIOL 2300. Prerequisites: BIOL 1610 or BIOL 1615. Lab fee required. 3 lab hours per week which includes frequent field trips.

BIOL 2320 Human Anatomy 3.00 CR
This course is for students in the health science fields, including nursing, pre-medical, pre-dental, physical therapy, and many others. It is also an option for biology majors, and those interested in massage therapy. The course examines the structures of the human body, including muscles, nerves, blood supply, bones, lymph, internal organs, and reproductive anatomy. The course includes lectures supplemented with laboratory examinations of cadavers, models, and CD-ROM. Successful completion of the course gives students great familiarity with the nomenclature and locations of structures in the human body, at an advanced level. Concurrent enrollment in lab section required; if students don’t take the lab course, the lecture course grade will not be recorded on the transcript. Prerequisites: BIOL 1610 or equivalent. 3 lecture hours per week.

BIOL 2325 Human Anatomy Lab 2.00 CR
A laboratory course to be taken concurrently with BIOL 2320. Prerequisites: BIOL 1610 and 1615. Lab fee required. 4 lab hours per week.

BIOL 2350 Fall Flora 2.00 CR
Plant Classification (trees and shrubs). For all students interested in learning: What kind of plant is that? Designed for anyone in the biological sciences as a profession in education, landscaping, agriculture, horticulture, natural resources ecology, environment, wildlife, weed control, park naturalist, or as a hobby. Teaches how to collect and identify vascular plants, primarily trees and shrubs, using manuals. Allows a student to talk or write about plants, to choose garden or houseplants. No prerequisite. Concurrent enrollment in lab section required.

BIOL 2355 Fall Flora Lab 1.00 CR
Plant Classification (trees and shrubs). A laboratory course to be taken concurrently with BIOL 2350. Three lab hours per week, which includes frequent field trips.

BIOL 2360 Spring Flora 2.00 CR
Plant Classification (spring wild flowers). For all students interested in learning: What kind of plant is that? Designed for anyone in the biological sciences as a profession in education, landscaping, agriculture, horticulture, natural resources, ecology, environment, wildlife, weed control, park naturalist, or as a hobby. Teaches how to collect and identify vascular plants, primarily wild flowers, using manuals. Allows a student to talk or write about plants, to choose garden or houseplants. Lab required. 2 lecture hours per week.

BIOL 2365 Spring Flora Lab 1.00 CR
A laboratory course to be taken concurrently with BIOL 2360. Three lab hours per week, which includes frequent field trips.

BIOL 2370 Economic Botany 3.00 CR
For all students seeking to fill an elective course in life science, elementary or secondary education, or any other applied or pure science fields. This course teaches about plants and plant products useful to humans. Major topics covered are: 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 other plant products. Prerequisite: BIOL 1010 or BIOL 1610/1615 or instructor permission. 3 lecture hours per week.

BIOL 2400 Plant Kingdom *LS 3.00 CR
Surveys of the Divisions traditionally studied by botanists. Coverage includes the structure, reproduction, systematics and evolution of the major prokaryotic, fungal, algal, and plant groups. Lab required. 3 lecture hours per week.

BIOL 2405 Plant Kingdom LAB 1.00 CR
A laboratory experience that complements and reinforces concepts taught in BIOL 2400: Plant Kingdom lecture. Must be taken concurrently with BIOL 2400. Lab fee required. 3 lab hours per week.

BIOL 2420 Human Physiology 3.00 CR
This course is for students in the health science fields, including nursing, pre-medical, pre-dental, physical therapy and many others. It is also recommended for biology majors. The course examines the way in which the body’s functions are carried out, utilizing a systems approach; the course covers topics such as blood chemistry, nerve impulse transmission, kidney function, muscle contraction, and heart function. The course is taught in a series of lectures, supplemented with laboratory investigations of lecture topics. Successful completion of this intensive course gives students pursuing biology-related careers 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. Concurrent enrollment in lab section required; if students don’t take the lab course, the lecture course grade will not be recorded on the transcript. Prerequisite: BIOL 1610. 3 lecture hours per week.

BIOL 2425 Human Physiology Lab 1.00 CR
A laboratory course to be taken concurrently with BIOL 2420. Prerequisites: BIOL 1610 and 1615. Lab fee required. 2 lab hours per week.

BIOL 2990 Seminar in Biology 0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, 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.

BIOL 3000 Rural Health Scholars 1.00 CR
Rural Health Scholars is a program to help prepare pre-medical, pre-dental, pre-pharmacy, pre-physician assistant, pre-optometry and other undergraduate health students for entry into professional schools. The one-hour per week course 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. Course may be repeated each semester. However, no more than 2 credits count toward the B.S. degree in Biology. Fee required. Course is pass/fail.

BIOL 3010 Biological Evolution 3.00 CR
This course focuses on the concepts of evolution as a fundamental principle of biology. Emphasis will include evidence for evolution in nature, the mechanisms of 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 our planet. Prerequisites: BIOL 1620/1625 and BIOL 2030. 3 lecture hours per week.

BIOL 3020 Cell Biology 3.00 CR
This course satisfies part of the core requirements for Biology majors and is designed to provide students with a solid background in cell biology (incorporating biochemistry and molecular biology). Cell biology is a dynamic area of study in the field of biology that merges studies of cell structure and cell function. Course content includes the basics of cell structure, function, metabolism, signaling, and communication. In addition to material from the textbook, students will also be presented with material from primary literature sources. Students successfully completing BIOL 3020 will obtain the foundation required for other upper-level biology courses including histology, pathophysiology, and developmental biology. Prerequisites: BIOL 1610/1615 and CHEM 1220/1225. Corequisites: BIOL 3025. 3 lecture hours per week.

BIOL 3025 Cell Biology Lab 1.00 CR
This laboratory course is designed to accompany BIOL 3020 and incorporates concepts covered in lecture to introduce the student to modern cell biology techniques. Lab fee required. Prerequisites: BIOL 1610/1615 and CHEM 1220/1225. Corequisites: BIOL 3020. 3 lab hours per week.
### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>BIOL 3100</td>
<td>Bioethics</td>
<td>3.00 CR</td>
<td>This course is an examination of the recent advancements in medicine and biological sciences in relation to basic ethical theories and traditional value systems. The focus will be upon human reproduction, medical care, genetic engineering, humans as experimental subjects, environmental issues, and death and dying. Prerequisites: BIOL 1610/1615 or BIOL 1010. 3 lecture hours per week.</td>
</tr>
<tr>
<td>BIOL 3110</td>
<td>Scientific Writing</td>
<td>2.00 CR</td>
<td>Designed to augment the writing skills of science majors for scientific research and communication. Prepares students and provides students with opportunities to 1) effectively use scientific literature databases 2) find, read, understand, and critically assess primary scientific literature effectively and, 3) write in a clear, concise scientific context that they will be required to do in upper-level science classes (including senior thesis) and in their professional lives (e.g. research reports for publication in primary literature and for internal corporate distribution). Prerequisite: BIOL 1610. 2 lecture hours per week.</td>
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<tr>
<td>BIOL 3140</td>
<td>Comparative Vertebrate Anatomy</td>
<td>3.00 CR</td>
<td>This course is for students majoring in the biological sciences, including biology, zoology, or any wildlife field. The lecture course covers the evolution of vertebrate design, surveying the tissue types that have changed to allow vertebrates to perform specific functions. Bones and muscles in particular will be emphasized, along with special tissues such as feathers, fur, and scales. Comparisons among groups of vertebrates will be highlighted to reveal the different evolutionary pathways followed. Successful completion of the course will permit a student to explain and clearly understand major evolutionary trends among the vertebrates, along with specific instances where particular adaptations have allowed special functions to develop very efficiently like flying, digging, deep diving, and great running speed. Prerequisites: BIOL 1620/1625; BIOL 3010 strongly recommended. Corequisite: BIOL 3145. 3 lecture hours per week.</td>
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<tr>
<td>BIOL 3145</td>
<td>Comparative Vert Anatomy Lab</td>
<td>1.00 CR</td>
<td>This three-hour laboratory course is to be taken concurrently with BIOL 3140. Students will dissect representative vertebrates to learn the 3-dimensional anatomy, emphasizing similarities and differences among large vertebrate groups. Some laboratory exercises may involve touring museums that demonstrate vertebrate anatomy. Successful completion will mean that a student is trained to dissect nearly any vertebrate and point out major anatomical features. Lab fee required. Prerequisites: BIOL 1620/1625; BIOL 3010 strongly recommended. Corequisite: BIOL 3140. 3 lab hours per week.</td>
</tr>
<tr>
<td>BIOL 3150</td>
<td>Introduction to Biometry</td>
<td>2.00 CR</td>
<td>This course satisfies the biostatistics requirement for biology majors. Topics included are experimental design, methods of data collection, statistical concepts, probability, testing of hypotheses, graphing techniques, estimation, discrete and continuous distributions, chi-square tests. Linear regression and correlation, analysis of variance, parametric and nonparametric tests. Students successfully completing BIOL 3150 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. 2 lecture hours per week.</td>
</tr>
<tr>
<td>BIOL 3155</td>
<td>Introduction to Biometry Lab</td>
<td>1.00 CR</td>
<td>This laboratory course is designed to accompany BIOL 3150 and will provide the student with opportunities to practice and apply the statistical concepts presented in the lecture portion of the course. Prerequisite: MATH 1050. Corequisite: BIOL 3150. 3 lab hours per week.</td>
</tr>
<tr>
<td>BIOL 3200</td>
<td>Invertebrate Zoology</td>
<td>3.00 CR</td>
<td>This course is designed for Biology majors and is a general study of invertebrate animal phyla including sponges, cnidarians, flatworms, roundworms, rotifers, mollusks, annelids, arthropods, echinoderms, and others. Emphasis will be upon characteristics, variations in body plans, life cycles, adaptations, and evolutionary relationships among major groups of animals. Uses a variety of teaching methods including lecture/discussion, review of scientific journal articles, writing assignments, videos, quizzes, exams, and laboratory. Successful completion of the course will allow students to identify major invertebrate animal phyla and discuss evolutionary trends pertaining to them. Prerequisites: BIOL 1620/1625. Corequisite: BIOL 3205. 3 lecture hours per week.</td>
</tr>
<tr>
<td>BIOL 3205</td>
<td>Invertebrate Zoology Lab</td>
<td>1.00 CR</td>
<td>This laboratory course is designed to accompany the BIOL 3200 lecture and will provide students with hands-on opportunities to dissect and study representatives of the various invertebrate animal phyla. Occasional field trips may be included. Lab fee required. Prerequisites: BIOL 1620/1625. Corequisite: BIOL 3200. 3 lab hours per week.</td>
</tr>
<tr>
<td>BIOL 3230</td>
<td>Cadaver Practicum</td>
<td>2.00 CR</td>
<td>This course is for students who want more experience in human dissection. Students will be instructed in the maintenance, dissection, and demonstration of the human cadaver. Students are required to perform six hours per week of dissection. Prerequisite: BIOL 2320/2325 and instructor permission. Enrollment is limited. Fee required. 6 practicum hours per week.</td>
</tr>
<tr>
<td>BIOL 3340</td>
<td>Plant Anatomy</td>
<td>3.00 CR</td>
<td>This course is designed for Biology majors and provides study of the development and microscopic structure of the stems, leaves, roots, and reproductive structures of vascular plants with emphasis on the flowering plants. Uses a variety of teaching methods including lecture/discussion, review of scientific journal articles, writing assignments, videos, quizzes, and exams, and laboratory. Successful completion of this course will allow students to categorize plants according to microscopic structure of tissues. Prerequisites: BIOL 1620/1625, BIOL 2400/2405. Corequisite: BIOL 3345. 3 lecture hours per week.</td>
</tr>
<tr>
<td>BIOL 3345</td>
<td>Plant Anatomy Lab</td>
<td>1.00 CR</td>
<td>This laboratory course is designed to accompany the BIOL 3340 lecture and will provide students with experience in using compound microscope to study the features of various plant tissues such as stems, roots, leaves, and reproductive structures. Lab fee required. Prerequisites: BIOL 1620/1625, BIOL 2400/2405. Corequisite: BIOL 3340. 3 lab hours per week.</td>
</tr>
<tr>
<td>BIOL 3360</td>
<td>Developmental Biology</td>
<td>3.00 CR</td>
<td>This lecture course is designed to introduce all biology students to the major patterns of development seen in animal embryos. Recent advances in the roles played by organizational genes will be stressed, as will the interactions among chemical gradients that cause tissue differentiation. Throughout the course, the constraints posed by developmental necessities on evolutionary change will be emphasized. Successful students will be able to describe the evolution of different body plans, with similarities and differences among major animal taxa, and the crucial importance of early stages of development in the proper functioning of mature organisms. Prerequisites: BIOL 1610/1615; BIOL 2030 strongly recommended. Corequisite: BIOL 3365. 3 lecture hours per week.</td>
</tr>
<tr>
<td>BIOL 3365</td>
<td>Developmental Biology Lab</td>
<td>1.00 CR</td>
<td>This weekly, three-hour laboratory course will explore the different embryological strategies used by various animal groups as they evolved into more complex organisms. Where possible, development will be observed directly (through microscopes) as it proceeds. Generally, representative invertebrate, amphibian, and bird development stages will be studied with prepared microscope slides. Where appropriate, development of specific tissues may be additionally studied in mammals or reptiles. The successful student will achieve a thorough understanding of body plans and developmental strategies used to create the diverse animal phenotypes seen in the natural world. The student will also be able to cite particular developmental problems and the resulting impact on the adult form. Lab fee required. Prerequisites: BIOL 1610/1615; BIOL 2030 strongly recommended. Corequisite: BIOL 3360. 3 lab hours per week.</td>
</tr>
<tr>
<td>BIOL 3450</td>
<td>General Microbiology</td>
<td>3.00 CR</td>
<td>This course satisfies part of the core requirements for Biology majors (including pre-medical, pre-dental, pre-veterinary, and other health professions students who need a more rigorous course). The course emphasizes relationships between microbes and their ecosystems, and biotechnological applications including food production, spoilage and preservation, fermentation technology, agriculture, waste disposal, water lecture/discussion, review of scientific journal articles, writing assignments, videos, quizzes, exams, and laboratory. Successful completion of the course gives students an understanding of the importance of microbes to biological communities and allows a student to proceed with other biology courses either at Dixie or a transfer university. Prerequisites: BIOL 1610, BIOL 1615 and CHEM 2310. Corequisite: BIOL 3455. 3 lecture hours per week.</td>
</tr>
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</table>
BIOL 3455  General Microbiology Lab  1.00 CR
This laboratory course is designed to accompany BIOL 3450 and will provide students with basic and applied methodologies including isolation of commercially useful strains and production and purification of industrial products. Lab fee required. Prerequisites: BIOL 1610, BIOL 1615, and CHEM 2310. Corequisite: BIOL 3450. 3 lab hours per week.

BIOL 3460  Biology of Infectious Disease  3.00 CR
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. This course will provide students with a modern view of the basic biology of bacterial and viral diseases and will build a foundation for more advanced studies in microbiology, microbial pathogenesis, and immunology. Topics will include 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 completion of the course gives students an understanding of the importance of microbes to biological communities and how evolution has and continues to impact aspects of disease transmission and control. Prerequisites: BIOL 1620/1625, BIOL 2030 or BIOL 3020/3025. 3 lecture hours per week.

BIOL 3470  Intro to Immunology  3.00 CR
This course is designed for Biology majors wanting more coverage of topics related to 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. Prerequisites: BIOL 3020/3025 or BIOL 3450/3455, BIOL 2030 or CHEM 3510 recommended. 3 lecture hours per week.

BIOL 4130  Biology Teaching Methods  3.00 CR
This course is designed to help secondary biology teachers plan, teach, and evaluate activities for their 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. NOTE: This course does not count as an elective course for the B.S. degree in Biology. Prerequisite: Junior or Senior status and admission to a secondary teacher program, or permission of instructor.

BIOL 4190  Mammalian Histology  3.00 CR
This course is designed to provide a basic understanding of the structural organization of cells, tissues, and organ systems at the microscopic level. Histology focuses on the characteristics of individual cell types within each tissue type as well as how the cells and tissues are organized to form organs. It emphasizes the dynamic relationships between structure and function. An important goal of histology is to help students acquire the knowledge and skills that they will need for subsequent study in the biological sciences. Corequisite: BIOL 4195: Mammalian Histology Lab.

BIOL 4195  Mammalian Histology Lab  1.00 CR
A laboratory course to accompany the BIOL 4190: Mammalian Histology lecture. Corequisite: BIOL 4190. Lab fee required. 2 lab hours per week.

BIOL 4200  Plant Taxonomy  2.00 CR
This course is designed for Biology majors wishing to gain experience in plant systems. The focus of this course is instruction on the collecting of plants and systems of classification. Successful completion of this course will allow the student to identify plants in the field using diagnostic techniques including the use of dichotomous keys. Field trips are required. Prerequisites: BIOL 1610, BIOL 1615, BIOL 2400, and BIOL 2405. Corequisite: BIOL 4205. 2 lecture hours per week.

BIOL 4205  Plant Taxonomy Lab  2.00 CR
This laboratory course is designed to accompany the BIOL 4200 lecture. Students will gain hands on experience in the collection and classification of plants through field trips, dissection of plants, microscopy, and the use of dichotomous keys. Study of herbarium specimens will be utilized. Plant collection is required. Lab fee required. Prerequisites: BIOL 1610, BIOL 1615, BIOL 2400, and BIOL 2405. Corequisite: BIOL 4200. 6 lab hours per week.

BIOL 4230  General Parasitology  3.00 CR
This course satisfies a basic requirement for Biology majors including pre-medical, pre-dental, pre-veterinary, nursing and other health professions students. The broad field of animal parasitology includes organisms classified as protozoa, helminths, and arthropods of veterinary and medical importance. Course emphasizes identification, life cycles, control and economic impact. Uses a variety of teaching methods including lecture/discussion, review of scientific journal articles, writing assignments, videos, quizzes, exams, and laboratory. Successful completion of the course gives students an understanding of the interaction between host and parasite, and allows students to proceed with other biology courses either at Dixie or a transfer university. Prerequisites: BIOL 1620, BIOL 1625, and junior or senior status. Corequisite: BIOL 4235. 3 lecture hours per week.

BIOL 4235  General Parasitology Lab  1.00 CR
This laboratory is designed to accompany the BIOL 4230 lecture. It emphasizes morphology and identification of representative groups of parasites, as well as diagnostic techniques of parasitic disease. Lab fee required. Prerequisites: BIOL 1620 and BIOL 1625, and junior or senior status. Corequisite: BIOL 4230. 3 lab hours per week.

BIOL 4260  Herpetology  2.00 CR
This course is designed for Biology majors and satisfies an elective requirement. The course covers the biology of amphibians and reptiles including evolutionary history, functional morphology, physiological ecology, biogeography, reproductive, and population ecology. Successful completion of the course will allow students to identify various reptiles and amphibians, especially those found locally, and to discuss evolutionary and ecological relationships among them. Prerequisites: BIOL 1620/1625 and BIOL 2220/2225. Corequisite: BIOL 4265. 2 lecture hours per week.

BIOL 4265  Herpetology Lab  1.00 CR
This laboratory course is designed to accompany the BIOL 4260 lecture. Lab sessions and field trips will cover systematic, natural history, and collecting/sampling techniques. Lab fee required. Prerequisites: BIOL 1620/1625, BIOL 2220/2225. Corequisite: BIOL 4260. 3 lab hours per week.

BIOL 4270  Ichthyology  2.00 CR
This course is designed for Biology majors and satisfies an elective requirement. The course covers the biology of fishes including evolutionary history, functional morphology, physiological ecology, and biogeography. Successful completion of this course will allow students to discuss the ecology of and identify various fishes, especially those found locally, with an emphasis on Utah species. Prerequisites: BIOL 1620/1625 and BIOL 2220/2225. Corequisite: BIOL 4275. 2 lecture hours per week.

BIOL 4275  Ichthyology Lab  1.00 CR
This laboratory course is designed to accompany the BIOL 4270 lecture. Lab sessions and field trips will cover identification and natural history with an emphasis on Utah species. Prerequisites: BIOL 1620/1625 and BIOL 2220/2225. Corequisite: BIOL 4270. Lab fee required. 3 lab hours per week.

BIOL 4280  Marine Biology  3.00 CR
Marine biology is an introductory course for students in the physical and biological sciences. This course will cover the 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. Prerequisites: BIOL 1620/1625 and BIOL 2220/2225. 3 lecture hours per week.

BIOL 4300  Molecular Biology  2.00 CR
This course is designed for Biology majors who desire advanced study in molecular genetics. Topics will include DNA replication, structure, rearrangement, transposition, recombination, repair mechanisms, genetic engineering and mechanisms of...
gene expression and gene modification. This course will explore current advances in molecular biology and genetics and investigate their applications by reviewing selected works from the current scientific literature. Successful completion of this course will allow students to gain entry-level jobs in biotechnology research laboratories or to proceed with further study in this area. Prerequisites: BIOL 2030 and CHEM 3510. 2 lecture hours per week.

BIOL 4305 Molecular Biology Techniques 2.00 CR
The purpose of this course is to introduce 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. The research project will follow 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. Prerequisites: BIOL 1610/1615, BIOL 2030, CHEM 1210/1215, 1220/1225, or instructor permission. Strongly recommended courses are: BIOL 2060/2065, CHEM 2310/2315 and CHEM 2320/2325. Lab fee required. 6 lab hours per week.

BIOL 4350 Animal Behavior 3.00 CR
This course is for students majoring in the biological sciences, including biology, zoology, or any wildlife field. The lecture course 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 completion of the course will permit a student to explain the many aspects of animal behavior, why those behaviors exist, and some specific examples of current research in each area of behavior. Prerequisites: BIOL 1620 and junior or senior status. Corequisite: BIOL 4355. (BIOL 3150: Introduction to Biometry is strongly suggested as a corequisite.) 3 lecture hours per week.

BIOL 4355 Animal Behavior Lab 1.00 CR
A three-hour laboratory course to be taken concurrently with BIOL 4350. Students will learn how behavior can be measured based on a clear definition of what behavior involves. Students 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. Finally, 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 completion of the course will mean that a student is 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 1620 and junior or senior status. Corequisite: BIOL 4350. (BIOL 3150: Introduction to Biometry is strongly suggested as a corequisite.) 3 lab hours per week.

BIOL 4380 Ornithology 2.00 CR
This course is designed for Biology majors and satisfies an elective requirement. Course covers the biology of birds including their origin, evolution, structure, habits, adaptations, distribution, and classification. Successful completion of the course will allow students to identify various birds, especially those found locally, and to discuss evolutionary and ecological relationships among them. Prerequisites: BIOL 1620, BIOL 1625, BIOL 2220, and BIOL 2225. Corequisite: BIOL 4385. 2 lecture hours per week.

BIOL 4385 Ornithology Lab 1.00 CR
This course is designed for Biology majors and satisfies an elective requirement. Course covers the biology of birds including their origin, evolution, structure, habits, adaptations, distribution, and classification. Successful completion of the course will allow students to identify various birds, especially those found locally, and to discuss evolutionary and ecological relationships among them. Prerequisites: BIOL 1620, BIOL 1625, BIOL 2220, BIOL 2225. Corequisite: BIOL 4385. Lab fee required. 2 lab hours per week.

BIOL 4400 Pathophysiology 3.00 CR
This course is an Introduction to pathophysiological etiology and mechanisms that cause disease and altered organ and organ systems functioning throughout the lifespan. Prerequisites: BIOL 2320/2325 and BIOL 2420/2425. 3 lecture hours per week.

BIOL 4411 Mammalogy 3.00 CR
This lecture course is designed to introduce biology, zoology, and wildlife biology majors to the unique adaptations and life histories of the mammals. After covering the characteristics that all mammals share, the course surveys each order of mammal, describing evolution (where known), natural histories, and geographical ranges of representatives of that order. Successful students will be able to describe what makes a mammal, its evolution, and the adaptations that enabled mammals to dominate the earth for the last 65 million years. Successful students will also be able to describe current problems facing many mammals, and possible solutions to those problems. Prerequisites: BIOL 1620/1625, BIOL 2220/2225; BIOL 3140/3145 recommended. Corequisite: BIOL 4415. 3 lecture hours per week.

BIOL 4415 Mammalogy Lab 1.00 CR
This weekly three-hour laboratory course, to be taken concurrently with BIOL 4411, will train students to skin and stuff representative mammals collected by the instructors. (The resulting specimens will be added to the DSC collection, for use in training future students.) Other teaching techniques will include articulating mammalian skeletons for display, observations of mammals and their signs in the wild, and review of skins/skeletons for identification purposes. Successful students will complete the course with a strong background of general knowledge about mammals, and specific knowledge of representatives of each taxon, especially local species and those of economic importance. Prerequisites: BIOL 1620/1625, BIOL 2220/2225; BIOL 3140/3145 recommended. Corequisite: BIOL 4411. Lab fee required. 3 lab hours per week.

BIOL 4440 General Entomology 3.00 CR
This course is designed for Biology majors and may be taken as elective credit. Topics covered include the study of the structure, development, classification, and life histories of insects, as well as ecological, economic, and management considerations. Uses a variety of teaching methods including lecture/discussion, field trips, writing assignments, videos, quizzes and exams, and laboratory. Successful completion of this course will allow students to identify common insects and to discuss the economic and ecological impacts of insects. Prerequisites: BIOL 1620/1625, BIOL 2220/2225 recommended. Corequisite: BIOL 4445. 3 lecture hours per week.

BIOL 4445 General Entomology Lab 1.00 CR
This laboratory is designed to accompany the BIOL 4440 lecture. Students will gain experience in proper collection techniques, identifying insects, and using dichotomous keys. Field trips are required and a returnable insect collection may be required. Lab fee required. Prerequisites: BIOL 1620/1625, BIOL 2220/2225 recommended. Corequisite: BIOL 4440. 3 lab hours per week.

BIOL 4460 Plant Ecology 2.00 CR
This course is designed for Biology majors and may be taken as elective credit. Emphasis will be on the study of limiting factors on plant growth and distribution. Adaptations and responses at the individual, population, and community levels will be considered. Species distributions along environmental gradients will be studied along with community structure and analysis. Uses a variety of teaching methods including lecture/discussion, field trips, writing assignments, videos, quizzes, exams, and laboratory. Successful completion of the course will allow students to identify possible factors limiting plant growth and distributions in certain areas. Prerequisites: BIOL 2220/2225; BIOL 3150/3155. Corequisite: BIOL 4460. 2 lecture hours per week.

BIOL 4465 Plant Ecology Lab 1.00 CR
This laboratory course is designed to accompany the BIOL 4460 lecture. Students will participate in data collection on field trips and learn to analyze their data sets. Students will also be expected to review and analyze current scientific journal articles related to plant ecology. Lab fee required. Prerequisites: BIOL 2220/2225, BIOL 3150/3155. Corequisite: BIOL 4460. 3 lab hours per week.

BIOL 4500 Comparative Vert Physiology 3.00 CR
This course uses a lecture format to present information about the physiological adaptations of vertebrates to students in biology, zoology, and wildlife biology. The general functions of each organ system are covered, along with enlightening examples of specific adaptations in those systems in certain taxa. Successful completion of the course indicates a thorough, broad understanding of how vertebrate organisms accomplish the necessary tasks of regulating the internal environment in a variety of ways. Prerequisites: BIOL 1620/1625 and CHEM 1220/1225. Corequisite: BIOL 4505. 3 lecture hours per week.

BIOL 4505 Comparative Vert Physiology Lab 1.00 CR
This laboratory course is designed to accompany the BIOL 4500 lecture and will il-
BIOL 4600  Plant Physiology  3.00 CR
This course is designed for Biology majors who desire more coverage of botany-re-
lated topics and satisfies the physiology requirement for the B.S. Biology degree.
Emphasis is on the physical and chemical basis of plant life relative to absorption,
transpiration, manufacture of foods, growth, and reproduction. Uses a variety of
Teaching methods including lecture/discussion, review of journal articles, writing as-
ignments, videos, quizzes and exams, and laboratory. Successful completion of this
course gives students an understanding of the interaction between structure and
function of plants and allows students to proceed with other biology courses. Prere-
quisites: BIOL 1620/1625, and CHEM 1220/1225. Corequisites: BIOL 4605. 3
lecture hours per week.

BIOL 4605  Plant Physiology Lab  1.00 CR
This laboratory is designed to accompany the BIOL 4600 lecture and provides the
student with hands-on activities involving observation and measurement of various
plant functions. Students will be expected to collect and summarize data in reports.
Prerequisites: BIOL 1620/1625, and CHEM 1220/1225. Corequisites: BIOL
4600. Lab fee required. 3 lab hours per week.

BIOL 4810  Independent Study  1.00-4.00 CR
Individual areas of study will be assigned to students on the basis of interest and
previous preparation. Students will be expected to write a paper (using supporting
scientific sources) related to the problem studied. Prerequisites: Junior or Senior
standing, permission of instructor, and ENGL 2010.

BIOL 4820  Independent Study  1.00-4.00 CR
Individual areas of study will be assigned to students on the basis of interest and
previous preparation. Students will be expected to write a paper (using supporting
scientific sources) related to the problem studied. Prerequisites: Junior or Senior
standing, permission of instructor, and ENGL 2010.

BIOL 4830  Summer Independent Problems  1.00-4.00 CR
Individual problems will be assigned to students on the basis of interest and previ-
ous preparation. Students will be expected to write a paper (using supporting scien-
tific sources) related to the problem studied. Summer independent study may
entail more time on the part of students and instructors as the research project(s)
may involve distant travel and more rigorous collection of scientific data for analy-
sis. Prerequisites: Minimum of two courses in biological sciences and instructor
permission.

BIOL 4890  Life Science Internship I  1.00-8.00 CR
For students who are granted and accept an internship with the government, a non-
profit agency, private agency, or approved employer that provides an extensive learn-
ing experience in the field of biology. Through arrangements with the department,
chair, a student may earn up to 8 credits per semester for satisfactory completion of
terms of the internship. Student must be supervised by an agency representative
and a faculty advisor. Written contracts must be completed and signed. (Note: No
more than 4 credits in any combination of internship, independent study, and sen-
ior thesis can count toward degree requirements for the B.S. biology degree.) Prere-
quisites: Junior or Senior standing and permission from biology department chair
and faculty advisor.

BIOL 4891  Life Science Internship II  1.00-8.00 CR
For students who are granted and accept an internship with the government, a non-
profit agency, private agency, or approved employer that provides an extensive learn-
ing experience in the field of biology. Through arrangements with the department,
chair, a student may earn up to 8 credits per semester for satisfactory completion of
terms of the internship. Student must be supervised by an agency representative
and a faculty advisor. Written contracts must be completed and signed. (Note: No
more than 4 credits in any combination of internship, independent study, and sen-
ior thesis can count toward degree requirements for the B.S. biology degree.) Prere-
quisites: Junior or Senior standing and permission from biology department chair
and faculty advisor.

BIOL 4910  Senior Seminar  1.00 CR
Review of current research and literature in the general fields of biological science.
Topics and themes will vary dependent upon the instructor. Enrollment is limited
to twelve students per section. Each student will be expected to lead the
seminar/discussion during one week and submit a synthesis paper on a selected bi-
tological topic. Open only to seniors or by permission of the department chair. Prere-
quisites: Senior standing and ENGL 2010 or permission of the department chair.

BUS 1001  First Year Business Experience  1.00 CR
This 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 so-
cial networks, learn about college resources, and explore different fields of study, de-
gree 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. 2 lab hours per week.

BUS 1010  Introduction to Business  3.00 CR
This course is designed to give the student with little or no understanding of the
field of business a broad overview and understanding of the business world. Topics
will cover the basic fundamental concepts of business, such as a definition of busi-
ness, its environment, how business people operate within that environment, the
role of business in our economic system; the role of profits, and how a business is
established, financed, operated and managed. No prerequisite. 3 lecture hours per
week.

BUS 1020  10-Key Calculator Skills  1.00 CR
This course will provide students with a firm foundation in the use of the 10-Key
Electronic Print/Display calculator. It will also introduce the student to the funda-
mentals of mathematics in business. Emphasis will be placed on the use of proper
techniques to develop speed and accuracy as well as demonstrate the many uses of the
10-Key calculator in a business setting. (Taught the first 5 weeks of the semes-
ter.) 1 lecture hour per week.

BUS 1030  Business Math  3.00 CR
This course is designed for the student interested in mathematical applications use-
ful to business problems. Topics include: checking accounts and bank reconcilia-
tions, percents, solving for the 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. 3 lec-
ture hours per week.

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## Course Descriptions

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 1060</td>
<td>Pre-Employment Seminar</td>
<td>1.00 CR</td>
</tr>
<tr>
<td>BUS 1350</td>
<td>Business Improvement Skills</td>
<td>1.00 CR</td>
</tr>
<tr>
<td>BUS 1360</td>
<td>Phi Beta Lambda Club</td>
<td>1.00 CR</td>
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<tr>
<td>BUS 1370</td>
<td>Human Relations</td>
<td>3.00 CR</td>
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<tr>
<td>BUS 1800</td>
<td>Business Work Experience</td>
<td>1.00 - 3.00 CR</td>
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<tr>
<td>BUS 1810</td>
<td>Business Work Experience</td>
<td>2.00 CR</td>
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<tr>
<td>BUS 1820</td>
<td>Business Work Experience</td>
<td>3.00 CR</td>
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<tr>
<td>CHEM 1010</td>
<td>Intro to Chemistry *PS</td>
<td>3.00 CR</td>
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<tr>
<td>CHEM 1110</td>
<td>Elem Gen/Organic Chemistry *PS</td>
<td>4.00 CR</td>
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<tr>
<td>CHEM 1115</td>
<td>Elem General/Organic Chem Lab</td>
<td>1.00 CR</td>
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<tr>
<td>CHEM 1120</td>
<td>Elem Organic/Bio Chemistry</td>
<td>4.00 CR</td>
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<tr>
<td>CHEM 1125</td>
<td>Elem Bio-OrgChem Lab</td>
<td>1.00 CR</td>
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<tr>
<td>CHEM 1120</td>
<td>Principles of Chemistry I *PS</td>
<td>4.00 CR</td>
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<tr>
<td>CHEM 1125</td>
<td>Principles of Chemistry I Lab</td>
<td>1.00 CR</td>
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<tr>
<td>CHEM 1210</td>
<td>Principles of Chemistry II</td>
<td>4.00 CR</td>
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<tr>
<td>CHEM 1225</td>
<td>Principles of Chemistry II Lab</td>
<td>1.00 CR</td>
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<tr>
<td>CHEM 2310</td>
<td>Organic Chemistry I</td>
<td>4.00 CR</td>
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</tbody>
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**CHEMISTRY (CHEM)**

For students who seek to fill the general education requirements in science and who will complete no other chemistry class. This class is for non-science majors. It will NOT satisfy requirements for science majors, health science programs or nursing. Emphasizes basic chemical concepts within daily life. Uses a wide variety of teaching methods that may include: lectures, multi-media presentations, guest speakers, reading assignments, worksheets, dialogue, individual and small group exercises, examinations and laboratory experiences. Successful completion should give students a general knowledge of basic chemistry. 3 lecture hours per week.

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A laboratory course to be taken concurrently with CHEM 1110. Lab fee required. 3 lab hours per week.

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An introductory course in biochemistry for students in family and consumer sciences, health sciences and most agricultural majors. This course covers the fundamental laws and reactions of general inorganic and organic chemistry, including the basic organic functional groups. Successful completion of this course should prepare students for and satisfy prerequisite for CHEM 1120. Prerequisite: MATH 1010 or equivalent. Concurrent enrollment in lab section required; if students don’t take the lab course, the lecture course grade will not be recorded on the transcript. 4 lecture hours per week.

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A laboratory course to be taken concurrently with CHEM 1120. Prerequisite: CHEM 1110 with lab (CHEM 1115). Lab fee required. 3 lab hours per week.

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For those students who will pursue a bachelor degree in life or physical sciences, pre-engineering, and pre-health professional areas (except for nursing). The course provides the theoretical and practical framework for further study in the sciences. It emphasizes measurement, stoichiometry, the nature of the atom, chemical periodicity, the states of matter, thermodynamics and bonding. Uses lecture and laboratory. Successful completion should prepare students for and satisfy prerequisite for CHEM 1220 and further study in the life and physical sciences. Corequisite: Chem 1230. Prerequisite: Completion or concurrent enrollment of Math 1050. Completion of a prior chemistry class strongly recommended. Concurrent enrollment in lab section required; if students don’t take the lab course, the lecture course grade will not be recorded on the transcript. 4 lecture hours per week.

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A laboratory course to be taken concurrently with CHEM 1210. Prerequisite: Completion or concurrent enrollment of MATH 1050. Lab fee required. 3 lab hours per week.

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A continuation of Chemistry 1210. Emphasizes kinetics, equilibrium, descriptive chemistry, nuclear chemistry and special topics. Uses lecture and laboratory. Successful completion should prepare students for and satisfy prerequisite for CHEM 2310 and further study in the life and physical sciences. Corequisite: CHEM 1240. Prerequisite: CHEM 1210. Concurrent enrollment in lab section required; if students don’t take the lab course, the lecture course grade will not be recorded on the transcript. 4 lecture hours per week.

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A laboratory course to be taken concurrently with CHEM 1220. Prerequisites: CHEM 1120 and CHEM 1125. Lab fee required. 3 lab hours per week.

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An introduction to functional groups and related reactions for Chemistry, Biology, Chemical Engineers, pre-Medical, pre-Dental, pre-Veterinarian, pre-Chiropractic, pre-Optometry, pre-Medical Technician, and pre-Pharmacy majors. Includes an introduction to spectroscopy. Successful completion of this course should prepare students for and satisfy prerequisite for CHEM 2320. Prerequisite: CHEM 1220 with a grade of C- or better or instructor permission. Concurrent enrollment in lab section required; if students don’t take the lab course, the lecture course grade will not be recorded on the transcript. Chem 1220 and lab (Chem 1225) required as prerequisites. 4 lecture hours per week.
CHEM 2315  Organic Chemistry I Lab  1.00 CR
A laboratory course to be taken concurrently with CHEM 2310. Prerequisites: CHEM 1220 and 1225. Lab fee required. 3 lab hours per week.
CHEM 2320  Organic Chemistry II  4.00 CR
Further study of functional groups and related reactions introduced in CHEM 2310. Includes organic reactions necessary for synthesis of larger molecules. Also includes an introduction to the molecules of life. Successful completion of this course should prepare students for further study in biochemistry and physical chemistry. Prerequisite: CHEM 2310. Concurrent enrollment in lab section required; if students don’t take the lab course, the lecture course grade will not be recorded on the transcript. 4 lecture hours per week.
CHEM 2325  Organic Chemistry II Lab  1.00 CR
A laboratory course to be taken concurrently with CHEM 2320. Prerequisites: CHEM 1220 and 1225. Lab fee required. 3 lab hours per week.
CHEM 2990  Seminar in Chemistry  0.50 - 3.00 CR
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  3.00 CR
Covers cellular metabolism of biologically-important molecules (carbohydrate, lipids, proteins, and nucleic acids). Also, regulation of these metabolic processes will be covered. Principles will be taught using structure/function relationships. Prerequisites: BIOL 1610/1615 and CHEM 2320/2325. 3 lecture hours per week.

COMPUTER INFORMATION SYSTEMS (CIS)

CIS 1140  Basic Keyboarding  1.00 CR
This course is for students who have no prior computer keyboarding skills. It is designed to help students learn beginning keyboarding skills including the alphabet, numbers, symbols, and basic keyboarding techniques. This course is a pass/fail course. Students should expect to exit the course with a keyboarding speed of 25 wpm. The course is designed to be completed in one-half semester. Hands-on instruction, in a self-paced environment is used to acquire these skills. It is recommended that upon completion of this course, students register for CIS 1150, Keyboard Skill Building to develop keyboarding speed up to 40 wpm. Course is pass/fail. 2 lab hours per week.
CIS 1150  Keyboard Skill Building  2.00 CR
This course is designed for students who wish to build basic keyboarding skills to 40 wpm and improve their accuracy - no more than a 10% error rate. This course would meet the needs of a student who needs to certify their keyboarding skill at a 40 wpm entry level. Hands-on instruction, in a self-paced environment, is used to acquire these skills. Recommended: entry level keyboarding speed of 25 wpm. 4 lab hours per week.
CIS 1160  Adv Keyboard Skill Building  2.00 CR
This course is designed for students who wish to increase speed and accuracy to a minimum job-marketable level of 60 wpm with no more than a 10% error rate. The course is taught in a hands-on, self-paced environment. The course may be repeated for credit. After skill levels of 60 wpm are acquired, students may also retake the course and individual percentage increases will determine grade. Prerequisite: CIS 1150. 4 lab hours per week.
CIS 1200  Computer Literacy *CP  3.00 CR
This course is designed to provide basic computer instruction to complete the computer information literacy requirement as well as the general education computer requirement at Dixie State College. Upon successful completion of the course, students should be able to use computer technology to access, create, analyze, process and deliver information. Hands-on instruction is used to develop those skills through the study of computer concepts, operating systems, e-mail, word processing, spreadsheet, and presentation software. This is also the beginning computer course for CIS and Business majors. The course is a self-paced course that provides flexibility for students to set their own daily schedule to meet section deadlines, however, the student should plan to spend 6-9 hours per week to meet course requirements.
CIS 1800  Computer Info. Work Experience  1.00 CR
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.
CIS 1810  Computer Info. Work Experience  1.00 - 3.00 CR
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.
CIS 1820  Computer Info. Work Experience  3.00 CR
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.
CIS 2010  Business Computer Proficiency  3.00 CR
This course is required as a core course for Business Majors and an elective for other students wanting skills training in Excel and Access. This course, with a grade of B- or better and its prerequisite course of CIS 1200, B- or better, certifies a student’s computer proficiency at a business school standard required of all lower-division undergraduate business majors. This course will cover intermediate and advanced concepts in the Excel spreadsheet application and beginning through advanced concepts in the Access database application. Prerequisite: CIS 1200 with a grade of B- or better. 3 lecture hours and 6 lab hours per week.
CIS 2400  Word Processing Applications  3.00 CR
For students in all disciplines. This course is designed as a comprehensive word processing course expanding on the basic skills acquired in CIS 1200—Introduction to Microcomputers. The course is useful to any student who seeks to present written materials in a professional and appealing manner. Fundamentals include the features used in basic line, page, and document formatting. Additional topics to be covered include graphics, tables, merging, sorting, columns, style, document generation, macros, templates, and appropriate application of each of these features to enhance the preparation and presentation of a variety of documents. The course is a self-paced course that provides flexibility for students to set their own daily schedule to meet section deadlines, however, the student should plan to spend 6-9 hours per week (in a regular 15-week semester) to meet course requirements. Prerequisite: CIS 1200.
CIS 2450  Spreadsheet Applications  2.00 CR
This course is for students requiring the use of computer skills for mathematical or financial calculations. An electronic spreadsheet program is used to teach the use of spreadsheet operations including charts, formulas, functions, and database skills. Techniques for enhancing the layout and presentation of spreadsheet information will also be used in the course. The course is a self-paced course that provides flexibility for students to set their own daily schedules to meet deadlines, however, the student should plan on spending 6-8 hours a week to meet course requirements. Prerequisite: CIS 1200.
CIS 2480 Business Presentation Graphics 2.00 CR
Designed for CIS or business and other students interested in developing skills in designing and presenting visual presentations. Teaches how to present charts and graphs, computer slide presentations, and other related applications using such techniques as drawing and editing tools to format data charts and graphs, to create personalized templates as well as using clip art when creating visual presentations. Hands-on instruction, in a self-paced environment, is used to acquire these skills. Completers should be able to create and present a visual presentation. The course is a self-paced course that provides flexibility for students to set their own daily schedules to meet section deadlines; however, the student should plan to spend 4-6 hours per week to meet course requirements. Prerequisite: CIS 1200.

CIS 2990 Seminar in CIS 0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, either students demand 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

COMPUTER INFORMATION TECHNOLOGY (CIT)

CIT 1001 First-Yr Seminar in Computing 1.00 CR
This seminar course is 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. 2 lecture hours per week.

CRIMINAL JUSTICE (CJ)

CJ 1001 First-Yr Orientation/CrimJusti 1.00 CR
This course is designed to help freshmen majoring 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. 1 lecture hour per week.

CJ 1010 Intro to Criminal Justice 3.00 CR
For students interested in a career in law enforcement, adult or juvenile corrections, law, private or industrial security, counseling or criminology and persons interested in the functioning of the criminal justice system in the United States. Examines the criminal justice system, police, courts and 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, guest lecturers and assigned text study. This course is required for a major in criminal justice and prepares students for the Associate Degree and for Bachelors Degree work. 3 lecture hours per week.

CJ 1070 Law Enforcement Academy I 3.00 CR
Restricted to students enrolled in Module I of the law enforcement academy program leading to State certification as a Special Function Officer. Register through Criminal Justice advisor.

CJ 1080 Law Enforcement Academy II 3.00 CR
Restricted to students enrolled in Module II of the law enforcement academy program leading to State Certification as a Peace Officer. Register through Criminal Justice advisor.

CJ 1300 Intro to Corrections 3.00 CR
For students interested in a career in law enforcement, adult or juvenile corrections, private or industrial security or law and 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. 3 lecture hours per week.

CJ 1330 Criminal Law 3.00 CR
For students interested in a career in law enforcement, adult or juvenile corrections, law, private or industrial security, criminology as well as those who may desire to learn about the criminal law in our society. Discusses crimes and defenses, as well as the historical foundation, limits, purposes and functions of the criminal law. Uses lectures, videos, guest lecturers and assigned text study. This class is required for students majoring in criminal justice. Provides foundation for work in the criminal justice field and students intending to participate in the peace officer or corrections academy. 3 lecture hours per week.

CJ 1340 Criminal Investigation 3.00 CR
For students interested in a career in law enforcement, adult or juvenile corrections, private or industrial security or law. Examines the duties and problems of the criminal investigator, report writing, record keeping, use of informants, trial preparation and testifying. In-depth examination of the investigation needs of specific crimes like sex crimes, arson, robberies and others. Uses lectures, videos, guest lecturers and assigned test study. Develops foundation for basic understanding of investigative techniques. 3 lecture hours per week.

CJ 1800 Criminal Justice Work Exper. 1.00 - 3.00 CR
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. Fall section.

CJ 1810 Criminal Justice Work Exper. 1.00 - 3.00 CR
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.

CJ 1820 Criminal Justice Work Exper. 1.00 - 3.00 CR
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. Summer section.

CJ 2020 Criminal Justice Supervision 3.00 CR
For students interested in a career in law enforcement, court system, adult or juvenile corrections, private or industrial security or criminal law. Deals with the principles of supervision, including motivation, discipline, evaluation, scheduling, work assignments, stress management and functioning of line and staff. Uses lectures, videos, guest lecturers, practical problem solving and assigned text study. Provides a foundation for work in the criminal justice system. 3 lecture hours per week.

CJ 2330 Juvenile Justice 3.00 CR
For students interested in a career in law enforcement, adult or juvenile corrections, private or industrial security, law, criminology, 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. 3 lecture hours per week.
COMM 1050 Intro to Comm Theory 3.00 CR
For students interested in a career in law enforcement, adult or juvenile corrections, private or industrial security, law, criminology. Deals with the principles and rules of law emphasizing evidentiary problems related to criminal cases. Uses lectures, videos, guest lecturers and assigned text study. Provides a foundation for work in the criminal justice field or for students intending to attend the law enforcement or corrections academy. 3 lecture hours per week.

COMM 1060 Intro to Rhetorical Theory 3.00 CR
For students in communication with an interest in learning about the meaning of rhetoric and its place in communication studies. The course will teach the basics of rhetorical theory, looking at both traditional and contemporary perspectives through lectures, media use, texts and student application of concepts. This course prepares students for advanced courses in communication. There are no prerequisites. 3 lecture hours per week.

COMM 1020 Public Speaking 3.00 CR
For students with an interest in mass media. This course is a survey of mass media reporting with a heavy emphasis on writing and Associated Press Style. Students will write a variety of media pieces in the areas of new writing for print, broadcast and online; specialized stories; public relations; and advertising. Students will also learn about interviewing, law and ethics. 3 lecture hours per week.

COMM 1001 Freshman Comm Experience 1.00 CR
This seminar experience is designed to help freshmen 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 the different options available within the Communication department, and learn about career opportunities in Communication. 1 individual hour per week.

COMM 2350 Laws of Evidence 3.00 CR
For students interested in a career in law enforcement, adult or juvenile corrections, private or industrial security, law, criminology. Deals with the principles and rules of law emphasizing evidentiary problems related to criminal cases. Uses lectures, videos, guest lecturers and assigned text study. Provides a foundation for work in the criminal justice field or for students intending to attend the law enforcement or corrections academy. 3 lecture hours per week.

COMM 1010 Elements of Effective Comm *FA 3.00 CR
Designed as a general education requirement. Students are introduced to both the theory and practice of communicating in interpersonal, small group, organizational, and public presentation settings. Critical thinking and effective expression of ideas are emphasized. Students learn essential theories of language use, nonverbal communication, organizational structure and practices, persuasion, and public speaking. Practical experience is provided in all of these circumstances. Satisfies general education requirements for the AS degree and prepares students to become better scholars, better and citizens in all forms of social discourse, and better citizens in life. 3 lecture hours per week.

COMM 2360 Juvenile Law and Procedure 3.00 CR
For students interested in a career in law enforcement, adult or juvenile corrections, private or industrial security, law, criminology or school counseling and teaching. Examines the history and development of laws dealing with juveniles, procedures in juvenile hearings and juvenile court with special emphasis on Utah law. Uses lectures, videos, guest lecturers and assigned text study. Provides a foundation for work with juveniles. 3 lecture hours per week.

COMM 1080 Intro to TV Production 2.00 CR
This course is an introduction to television production through basic studio exercises and productions. Students will become familiar with the basic tools of television studio production and the processes involved in the creation of a completed television program. Students will learn the basic terminology of studio production including the duties of each of the studio production technical positions. Lab required. 2 lecture and 2 lab hours per week.

COMM 1085 Intro to TV Production LAB 1.00 CR
A laboratory course for introduction to television production through basic studio exercises and productions. Students will become familiar with the basic tools of television studio production and the processes involved in the creation of a completed television program. Students will learn the basic terminology of studio production including the duties of each studio production technical positions. Co-requisite: COMM 1380. 2 lab hours per week.

COMM 1400 Voice and Diction 3.00 CR
For all students seeking to improve articulation and increase control of the speaking voice. Designed for speech therapists, radio/TV, theatre performance and vocal music majors. Teaches the mechanics of speech production, including respiration, phonation, resonance and articulation. Teaches the International Phonetic Alphabet. Uses textbook reading, lecture, media, demonstration, discussion and individual performances. Quizzes, tests and exercises may also be used. Emphasizes skill development. 3 lecture hours per week.

COMM 1500 Intro to Mass Communication 3.00 CR
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. Emphasis on helping students develop and defend value judgments about media content and style and on the relevance of mass media in everyday life. 3 lecture hours per week.

COMM 1560 Beg Radio Production 3.00 CR
This class will introduce students to the basic skills for radio announcers in the areas of programming, performance, and production. They will also understand FCC requirements for radio staff members in areas including indecency programming and
political advertising. This course is intended for general students and is necessary to be on the air on the campus radio station. Fee required. 3 lecture hours per week.

**COMM 1610 News Writing & Reporting** 3.00 CR
For communications majors with an interest in writing for the print media. Emphasizes aspects of print journalism and teaches students how to gather and report facts for different types of news stories. This is a writing-intensive course that fulfills a requirement in several tracks of a mass media emphasis. Prerequisite: COMM 1130. 3 lecture hours per week.

**COMM 1800 Communications Work Experience** 1.00 - 3.00 CR
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. Students gain added awareness of actual working requirements. Students are limited to four cooperative education credit courses or 12 cooperative education credits. Prerequisite: Successful completion of COMM 1660, COMM 1720, and COMM 2680.

**COMM 1810 Communications Work Experience** 1.00 - 3.00 CR
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. Students gain added awareness of actual working requirements. Students are limited to four cooperative education credit courses or 12 cooperative education credits. Prerequisite: Successful completion of COMM 1660, COMM 1720, and COMM 2680.

**COMM 1820 Communications Work Experience** 1.00 - 3.00 CR
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. Students gain added awareness of actual working requirements. Students are limited to four cooperative education credit courses or 12 cooperative education credits. Prerequisite: Successful completion of COMM 1660, COMM 1720, and COMM 2680.

**COMM 2020 Forensics Institute** 3.00 CR
For students who desire to enhance their Policy and Lincoln-Douglas Debate knowledge and skills.

**COMM 2110 Interpersonal Comm *FA** 3.00 CR
Designed for all students as a general education requirement. Teaches students communication skills in a wide range of interpersonal areas appropriate to business or personal relationships. Focus is given to skills involving initiating, developing, maintaining relationships; as well as controlling the deterioration of relationships. Special emphasis is given to listening, assertiveness, supportive climates, conflict, power management, and disclosure. Some exposure is given to the special needs of intercultural communication. Use a wide range of teaching methods to include lectures, student activities and exercises, discussion, and small group work. Satisfies general education requirements for the AS degree and prepares students to effectively express ideas in one-to-one settings. 3 lecture hours per week.

**COMM 2120 Small Group Communication** 3.00 CR
Small group communication is important in almost every aspect of society: family, work, social, religious, civic and educational environments. Each group has its rules of conduct, roles, expectations of performance, and governing regulations—sometimes formal and sometimes unspoken. To be a productive member of any society, one must understand and function productively in small group setting of all kinds. This course is designed to review criteria for effective group decision making and productivity and to provide training in how to apply these principles in effective group settings. 3 lecture hours per week.

**COMM 2170 Intro to Organizational Comm** 3.00 CR
An introductory course where students will explore the basic concepts and theories that inform Organizational Communication. Students will apply concepts and theories studied to current organizational settings in which they are involved. The format of the course is lecture, discussion, case analysis and application. 3 lecture hours per week.

**COMM 2210 Newspaper Production I** 1.00 - 3.00 CR
Practicum Experience on the campus newspaper: 4-12 hours per week, earning 1-3 credits (4 hours per week per credit). This course is required for students who want to begin working on the student newspaper, the Dixie Sun, as writers, reporters, photographers, editors, directors, or student managers. The course provides hands-on experience in most facets of producing a weekly newspaper including writing, layout, photography, and advertising, plus discussions of journalism and newspaper principles and holding staff meetings. Students may be required to work some evenings in production. This course is intended for general students, and it is not necessary to be a Communication major to take this elective course. The course may be repeated for credit, with instructor approval, to facilitate on-going participation on the newspaper staff. Prerequisite: COMM 1130. Instructor permission required. 4-12 hours per week.

**COMM 2370 Sports Broadcasting** 3.00 CR
The Sports Broadcasting program is a hands-on lecture/laboratory experience designed to provide the student with a working knowledge of all aspects of broadcasting a live sporting event. All students are required to work on 10 shoots during a semester. These shoots may include high school as well as college sporting events. Students will select a primary and secondary job position on the broadcasting team in which they will work for the first half of the semester. At mid-term they may move to the secondary position or challenge for a position if already filled. 3 lecture hours per week.

**COMM 2380 Radio Production Practicum I** 1.00 - 3.00 CR
Practicum Experience on the student radio station: 4-12 hours per week, earning 103 credits (4 hours per week per credit). Some additional hours, including evenings and weekends, may be required in addition to regularly-scheduled training sessions and meetings. This course is required for students who want to begin working on the student radio station as announcers and in the areas of programming, performance, and production. Students also learn FCC regulations concerning on-air logging and verifications, prohibitions against indecent programming, and political advertising. This course is intended for general students and it is not necessary to be a Communication major to take this elective course. The course may be repeated for credit, with instructor approval, to facilitate on-going participation on the radio station staff. Course fee required. Prerequisite: COMM 1560. 4-12 hours per week.

**COMM 2410 Directing for the Camera** 3.00 CR
A course designed for film and theatre students to introduce techniques in working relationships between actors and film production personnel. Curriculum is taught concurrently with THEA 2033, Second Year Acting, where theatre students are taught techniques and methods of working with the camera by film production faculty, and production students are taught approaches to working with theatre faculty. Students will then integrate talents in student film projects where production theatre and film students apply their craft. Skills developed in this course include directing, blocking for the camera, interpreting dialogue, learning production vermicular and protocols for actors on a film set, interpersonal skills between talent and technicians. 3 lecture hours per week.

**COMM 2500 Elmnts/Trends/Issues/DigTech** 3.00 CR
An introduction to digitally integrated media, including an understanding of 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. Students obtain a general and very basic knowledge of the technology of modern digital communication; a general understanding of the issues and implications of these 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 and practices, such as access, privacy, copyright, regulation, etc. Course is a core requirement for all Communication majors. Prerequisite: COMM 1500. 1 lecture hour and 2 online hours per week.

**COMM 2530 Photographic Journalism** 3.00 CR
For all students with a mass media emphasis, and especially those interested in print media. Teaches students how to shoot and crop shots for journalistic use. Students also work with design, composition and presentation in digital technology. Emphasis is on pictures for reproduction in the print media. The course stresses recognition, development and creation of news photographs and the skills of the photo editor. 3 lecture hours per week.
COMM 2600 Screenwriting 3.00 CR
Designed for majors with the objective of understanding and developing screenwriting approaches to feature and short, and documentary style production. Skills developed include identification of structural elements inherent in feature and documentary work, distinguishing how character functions within the plot, articulating plot points and transitions, and exploring effective avenues of research for development. 3 lecture hours per week.

COMM 2630 Storyboarding and Illustration 3.00 CR
Designed for majors with the objective of understanding and developing storyboarding approaches to feature, short and documentary pre-production development. Curriculum focuses on storyboarding for concept development through lecture, developing essential illustrating skills through hands-on application, and exploring alternative methods of digital film pre-visualization via film artifacts. Skills developed in this course include identification of the structural elements inherent in storyboarding, distinguishing camera and character movement through illustration, as well as using 3-D software for virtual storyboarding pre-visualization. Prerequisite: COMM 2660. 3 lecture hours per week.

COMM 2660 Intro/Digital Film Production 3.00 CR
A survey course designed for CNM majors interested in applications of digital film production. The course covers the industry in a number of environments including commercial, corporate, Internet, documentary and feature production. Includes overview of the development and integration of digital technology in film production including impacts in pre-production, production and post-production. Content also addresses critical analysis of effects and technical and ethical aspects of compositing. Uses discussion, outside reading, viewing and research, and a text to progress students' understanding of this powerful medium. 3 lecture hours per week.

COMM 2990 Seminar in Communication 0.50 - 3.00 CR
For students seeking 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. May be repeated for additional credit. Prerequisite: Instructor permission required.

COMM 3060 Communication Theory 3.00 CR
An upper division course designed to develop in students awareness, understanding, and application of the complex theories and concepts inherent in the study of Human Communication. Curriculum focuses on theoretical, conceptual, and applied research and scholarship that investigates myriad ways in which people communicate and the consequences of those interactions. In addition, students will extend their studies to focus on the various effects new media technologies have on Human Communication processes. This course develops an understanding of how various components of the communication process interact, analysis of those interactions to identify ways to become a more effective communicator, and application of theories and concepts to everyday life. Prerequisite: COMM 1050 with a C+ or better. 3 lecture hours per week.

COMM 3100 Effective Comm w Educ Contexts 3.00 CR
This course is designed specifically for students whose career objective is classroom teaching. The overall philosophy of this course is that without communication skills, a teacher, as well as most other careers dealing with people, is destined to fail. A teacher must be an expert communicator, not only in the classroom, but also with the parents of students, with other colleagues, and as a representative of the school to the general public. Success or failure of any teacher begins with his or her ability to communicate. Prerequisite: Admission into the Dixie State College elementary education baccalaureate program.

COMM 3110 Interpersonal/SmGrp Dynamics 3.00 CR
This course is designed to address the connection between interpersonal communication and the needs of small groups. The course explores 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. The course content is particularly useful for upper division students pursuing undergraduate degrees in Communication with an emphasis in Interpersonal/Small Group Communication, Organizational Communication, or Leadership. 3 lecture hours per week.

COMM 3120 Family Communication 3.00 CR
The fundamental structure of our society centers on the family unit. The communication structure, interaction patterns, and influences produced by family structures shape our culture. As we study the complexities and influences of the family structure, we understand our culture better. The end product is that as family structure and communication improves, the entire culture becomes more satisfying. This course will examine the communication net surrounding the family unit from the first meeting of partners to the final stages of life itself. Issues such as 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 will all be considered. Improvement in the understanding family communication means improving the culture itself. 3 lecture hours per week.

COMM 3170 Advanced Critical Thinking 3.00 CR
This course is designed to facilitate increasing critical thinking skills, particularly in the professional arena. Rhetorical analysis, as well as content analysis, are undertaken in order that students are better able to extract meaningful information from messages both written and spoken. These skills are further refined as students are expected to develop their own written and spoken messages that are simultaneously substantive and effective for application within their respective professional activities. The course content is particularly useful for upper division students pursuing undergraduate degrees in Communication with an emphasis in Interpersonal/Small Group Communication, Organizational Communication, or Leadership. 3 lecture hours per week.

COMM 3190 Intercultural Communication 3.00 CR
This course is designed to develop cross-cultural, global understanding and sensitivity in students who are pursuing a degree in all emphases of the Baccalaureate degree in Communication. This course focuses on theoretical and conceptual immersion in extant cross-cultural research and scholarship. Students will utilize various forms and formats of new media technologies to access and interact with representatives of other cultures. Skills developed in this course include 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. 3 lecture hours per week.

COMM 3210 Leadership 3.00 CR
For students seeking 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 hour 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. May be repeated for additional credit. Prerequisite: Instructor permission required.

COMM 3350 Interviewing 3.00 CR
This course focuses upon dyadic communication conducted specifically for the purpose of gathering information and seeking entrance into closed groups such as the workplace, or any one of thousands of clubs or limited groups social, educational or even recreational. 3 lecture hours per week.

COMM 3330 Negotiations & Bargaining 3.00 CR
This course is an upper division core requirement for degree students in the Human Communication emphasis, Organizational Communication track. The course explores the processes and outcomes of negotiation and bargaining principles, theories, and related concepts. Students are expected to engage in experiential opportunities where they apply those principles and gain skills in negotiation and bargaining in current social and professional settings. Industry representatives whose professional responsibilities include negotiation and bargaining will be invited to speak to students throughout the semester. Students can expect to attain reasonable skills as negotiators/bargainers. 3 lecture hours per week.

COMM 3350 Interviewing 3.00 CR
This course focuses upon dyadic communication conducted specifically for the purpose of gathering information and seeking entrance into closed groups such as the workplace, or any one of thousands of clubs or limited groups social, educational or even recreational. 3 lecture hours per week.
Course Descriptions

COMM 3380 Radio Production Practicum II 1.00 - 3.00 CR  
Practicum Experience on the student radio station: 5-15 hours per week, earnin 1-3 credits (5 hours per week per credit). Some additional hours, including evens and weekends, may be required in addition to regularly-scheduled training sessions and meetings. This course builds upon the skills students learned in Radio Production Practicum I (COMM 2380) in the areas of programming, performance, and production, by participating in on-location and in-studio productions and promotions, seeking underwriting sponsors, and engaging in effective program scheduling. The course is required for all student managers and directors of the radio station who will utilize a portion of their time in meeting with and directing the student staff. This course is intended for general students, and it is not necessary to be a Communication major to take this elective course. Course may be repeated for credit, with instructor approval, to facilitate on-going participation on the radio staff. Course fee required. Prerequisite: COMM 1560. 5-15 hours per week.

COMM 3460 Content & Rhetorical Analysis 3.00 CR  
Introduction to analysis of public communication (speeches, editorials, advertisements, TV, film, etc.) from a variety of rhetorical perspectives. Students will take the ideas learned in the theory course and apply them to texts looking for the persuasive means. Course will use media, tests, and student research to show the underlying rhetoric in everyday settings. Prerequisite: COMM 1060. 3 lecture hours per week.

COMM 3550 Theoret Perspectives/Org'lCom 3.00 CR  
This course is an upper division core requirement for degree students in the Human Communication emphasis, Organizational Communication track. Students enrolled in this course are expected to read and engage modern research initiatives in Organizational Communication. Students will examine theories and concepts in detail, particularly with a view toward modern applications within a range of current professional settings. Students should expect to become much more advanced in their abilities to apply appropriate theories and concepts in analyses of organizations, human behavior, organizational policies and their consequences. Prerequisites: COMM 2170 and COMM 1050. 3 lecture hours per week.

COMM 3560 Visual Communication 3.00 CR  
An introduction to visual communication as manifested in photography, television, motion pictures, the Internet, and other visual media. They acquire 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 typologies. Prerequisite: COMM 1500. 3 lecture hours per week.

COMM 3580 Public Relations 3.00 CR  
A survey of the tools, principles, and practices of the Public Relations profession. Students learn how to use the basic tools of PR: 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. Includes a lab component where students produce public relations materials and documents, and where they plan public relations events, all under a time deadline. Students learn the fundamental principles of communication relating to public affairs, persuasion, journalism and public relations. They also learn the requirements of all the major categories of PR: media relations, employee relations, investor relations, consumer relations, community relations, and government relations. As part of this process they critically evaluate specific historical PR cases. Prerequisite: COMM 1130. 3 lecture hours per week.

COMM 3590 Media Management and Sales 3.00 CR  
This course teaches managerial and sales principles affecting media facility operations: fiscal management, regulations, ratings, program decision-making and maximizing human resources in a modern broadcast/telecom environment. Students obtain a basic understanding of all of the following in a media context: contemporary sales principles and practices; sales and program promotions; facility management principles, including how convergence is changing the nature of those facilities; accounting principles and fiscal management; the history and present status of media regulation; how ratings and circulation are measured and used; how programs and other content are selected and used; and human resource management. 3 lecture hours per week.

COMM 3600 New Media Reporting 3.00 CR  
An intermediate course designed for majors interested in news and information reporting in broadcast, corporate and Internet contexts. Curriculum focuses on developing information gathering skills such as interviewing and research, writing for mass audiences in the aforementioned contexts, and integrating digital visual elements into media distribution. Students will also understand media law, ethics, and cultural sensitivity; political structures and organization. Skills developed in this course include competent writing for mass audiences including writing for press releases, video news releases, broadcast news, and copy editing and critique. Prerequisite: COMM 1130. 3 lecture hours per week.

COMM 3610 News and Copy Editing 3.00 CR  
For communication students with an interest in print online media. This course teaches good writing and editing skills as they pertain to print online news writing. Students will become more efficient headline and cutline writers. Students may also gain copy editing experience by working with the Dixie Sun student newspaper. Prerequisites: COMM 1130. 3 lecture hours per week.

COMM 3640 Digital Film Pre-Production 3.00 CR  
An upper-division course designed for majors with the objective of understanding and executing the pre-production process in filmmaking. Pre-production is vital to the success of any production in new media. Curriculum focuses on developing essential components such as production management, production hierarchy and protocols, personnel organization, scheduling and budgeting. Students will also learn the collaborative aspect of production, ethics and cultural sensitivity in working in this context. Skills developed in this course include technical writing for production breakdown, organizing and planning for productions on a variety of levels. Prerequisite: COMM 2660. 3 lecture hours per week.

COMM 3650 TV Field Production/Reporting 2.00 CR  
Students in this class will be building on their knowledge from their Broadcast News Writing and Reporting class (COMM 2140). Having learned the style and limitations of the broadcast medium, they will now concentrate on the visual aspect of broadcast news gathering. Students will develop skills in broadcast video production and editing the primary ENG (Electronic News Gathering) formats. Lab required. Prerequisite: COMM 1380 or COMM 2140. 2 lecture hours per week.

COMM 3655 TV Field Prod/Reporting LAB 1.00 CR  
Students in this class will be building on their knowledge from the Electronic Media News Writing and Reporting class (COMM 2140) for Electronic Journalism majors or for Electronic Media Production majors (COMM 1380). Having learned the style and limitations of the broadcast medium, they will now concentrate on the visual aspect of broadcast news gathering. Students will develop skills in broadcast video production and editing in the primary ENG formats. Co-requisite: COMM 3650. 2 lab hours per week.

COMM 3660 Digital Film Production 2.00 CR  
This course is designed to discover theory and develop skills in single-camera production protocols, pre-visualization, the camera, shooting, sound, lighting and exposure. Skills developed specific to this course include: cinematography, location audio acquisition, and location and set lighting. Majors will develop skills germane to producing their student projects. Prerequisite: COMM 2660. Lab required. Instructor permission required. 2 lecture hours per week.

COMM 3665 Digital Film Production LAB 1.00 CR  
This is the lab section for COMM 3660, a course designed to discover theory and develop skills in single-camera production protocols, pre-visualization, the camera, shooting, sound, lighting and exposure. Skills developed specific to this course include cinematography, location audio acquisition, and location and set lighting. Majors will develop skills germane to producing their student projects. Co-requisite: COMM 3660. 2 lab hours per week.

COMM 3680 Digital Film Post-Production 2.00 CR  
This course is designed to develop theory and develop skills in post-production. It is the culmination of COMM 3640 and 3660 in completing the study of the production process in digital film production. Majors examine editing protocols including line producing, footage and logging reports, digitizing, editing methodology and approaches, Foley and post audio production. Skills developed specific to this course include non-linear editing on Final Cut Pro, post management, shot logging, editing aesthetics and developing transitions. Lab required. Prerequisites: COMM 2660. 2 lecture hours per week.
Course Descriptions

COMM 3685 Digital Film Post-Prod LAB 1.00 CR
This is the lab section for COMM 3680, a course designed to develop theory and develop skills in post-production. It is the culmination of COMM 3560 and 3660 in completing the study of the production process in both film and news production. Majors examine editing protocols including line producing, footage and logging reports, digitizing, editing methodology and approaches, Foley and post audio production. Skills developed specific to this course include non-linear edition on Final Cut Pro, post management, shot logging, editing aesthetics and developing transitions. Co-requisite: COMM 3680. 2 lab hours per week.

COMM 3700 Television News Process 2.00 CR
This course is designed to examine and develop skills in the process of television news that takes place from initial story conception to the role of the producer in creating a completed television newscast or news magazine program. Students will further refine their skills in visual storytelling, electronic news gathering and writing and reporting within the context of television news producer. Lab required. Prerequisites: COMM 3650/3655. 2 lab hours per week.

COMM 3705 Television News Process LAB 1.00 CR
This course provides the lab the COMM 3700 which is designed to examine and develop skills in the process of television news that takes place from initial story conception to the role of the producer in creating a completed television newscast or news magazine program. Students will further refine their skills in visual storytelling, electronic news gathering and writing and reporting within the context of television news producer. Co-requisite: COMM 3700. 2 lab hours per week.

COMM 3790 Audio Production 3.00 CR
This course is designed to discover theory and develop skills in audio acquisition in both motion picture production and news broadcasting environments. Majors will develop skills in field and studio sound acquisition in mixing multiple sources, using a variety of microphones in proper applications and then engineer samples for post-production. 3 lecture hours per week.

COMM 3830 Editorial/Opinion Writing 3.00 CR
For communication students with an interest in print journalism. This course focuses on critical, opinion and persuasive writing in print mediums in the form of editorials, reviews, columns and cartoons. Students will read, analyze, research and write content in op-ed pages of a newspaper. This course also emphasizes good writing skills. Prerequisites: COMM 1130. 3 lecture hours per week.

COMM 3850 Organizational Communication 3.00 CR
A mid to upper division course designed to develop in students an awareness and understanding of the complex processes inherent in organizations. Curriculum focuses on theoretical, conceptual, and applied research and scholarship that reviews why organizations succeed, and why they fail. This course develops an understanding of 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. 3 lecture hours per week.

COMM 3990 Seminar in Communication 0.50 - 3.00 CR
For students seeking 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 lease 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. May be repeated for additional credit. Prerequisite: Instructor permission required.

COMM 4010 Persuasion 3.00 CR
An upper division course designed to develop student’s awareness, understanding, and application of critical thinking and persuasive message design to achieve intended persuasive effects on specific audiences. Curriculum focuses on rhetorical, conceptual, and applied research and scholarship that tracks both traditional as well as modern persuasive processes. In addition, students will be challenged to develop their critical thinking skills through thorough audience analysis and the analysis of positional arguments and their rhetorical construction. Both oral and written presentation of persuasive messages in the classroom will be emphasized. Prerequisites: COMM 1270. 3 lecture hours per week.

COMM 4020 Integrated Oral Presentations 3.00 CR
This course is designed to discover theory and develop skills in integrating public speaking with technology. More than just a Power Point course, majors will expand their presentational skills and impact of their messages by producing and incorporating web-based QuickTime motion pictures and other electronic images. Majors will understand integrated delivery strategies and develop a technological foundation to support this sophisticated form of public speaking. Prerequisites: COMM 1020 and COMM 4010. 3 lecture hours per week.

COMM 4030 Appl Org’l Comm Research 3.00 CR
This course is an upper division core requirement for degree students in the Human Communication emphasis, Organizational communication track. Students enrolled in this course are expected to read and engage modern research initiatives in Organizational Communication. Students will examine theories and concepts in detail, particularly with a view towards modern applications within a range of current professional settings. Students should expect to become much more advanced in their abilities to apply appropriate theories and concepts in analyses of organizations, human behavior, organizational policies and their consequences. Students will design and implement original research emerging from their case. Prerequisites: COMM 3050, 4550 and 4450. 3 lecture hours per week.

COMM 4050 Leadership/High Perform Teams 3.00 CR
This course is an upper division elective for students enrolled in the Human Communication Emphasis, Organizational Communication Track. The course is designed for students who desire to develop their interpersonal skills within the Small Group and Organizational contexts. The course is a second semester involvement in Small Group Dynamics with a special emphasis on the development of teamwork and the principles of high performance teams. In addition, the conceptualization and practice of the many types of leadership and their effective applications will be explored. The course consists of lecture, experiential exercises, field trips, video analysis, and guest speakers. Students should expect to achieve advanced skills and understanding of group processes as well as leadership dynamics within those groups. Prerequisite: COMM 2120. 3 lecture hours per week.

COMM 4100 Documentary Production 2.00 CR
This is an advanced class for Electronic Journalism majors designed to integrate their competencies from previous classes in writing, videography, visual storytelling, and editing. They will build upon these skills as they conceptualize, plan, and execute a documentary to completion. Prerequisites: 2660. Lab required. 2 lecture hours per week.

COMM 4105 Documentary Production LAB 1.00 CR
This is the lab for the advanced class for Electronic Media Journalism Majors designed to integrate their competencies from previous classes in writing, videography, visual storytelling, and editing. They will build upon these skills as they conceptualize, plan, and execute a documentary to completion. Co-requisite: COMM 4100. 2 lab hours per week.

COMM 4260 Media Law 3.00 CR
This course 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, but are not limited to, the First Amendment, print and broadcast media regulation, advertising regulation, Internet law, libel, privacy, trespass, royalties, and copyrights. 3 lecture hours per week.

COMM 4380 Adv Television Production 2.00 CR
This is an advanced class in television production for Electronic Media Production majors. Having laid the production foundation in studio production (COMM 1380), live remote production (COMM 2370), field production (COMM 3650/3655), and audio production (COMM 3790), students will now integrate these elements by producing and directing a television program after choosing among various options. Prerequisite: COMM 3650/3655. Lab required. 2 lecture hours per week.
COMM 4385 Adv Television Production LAB 1.00 CR
This is the lab for the advanced class in television production for Electronic Media Production majors. Having laid the foundation in studio production (COMM 1380), live remote production (COMM 2370), field production (COMM 3650) and audio production (COMM 3790), students will now integrate these elements by producing and directing a television program after choosing among various options. Co-requisite: COMM 4380. 2 lab hours per week.

COMM 4450 Communication Research 3.00 CR
This is an upper division core requirement for degree students in the Human Communication focus. Students will study communication-specific research methodologies, both quantitative as well as qualitative, through a process of research design and application. Lecture will be the primary teaching approach that stresses both discussion and research analysis within the communication content arena. Upon completion of the course, students will be expected to demonstrate an understanding of research methodologies and apply that understanding to the analysis of research by both themselves and others. Prerequisite: COMM 3060. 3 lecture hours per week.

COMM 4490 Comm & Contemp Public Issues 3.00 CR
An analysis of public issues that currently dominate communication. Such analysis reviews the impact of technology, philosophy, and ideas requiring application of rhetorical principles for more effective communication. Mastery of such study prepares students to think more effectively in society by being more proficient in utilizing such skills. Prerequisite: COMM 4010. 3 lecture hours per week.

COMM 4500 Human Comm & Conflict 3.00 CR
This course is an upper division elective for students enrolled in the Human Communication Emphasis, Organizational Communication Track. The course 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. Lecture is the primary format but that is supplemented by experiential exercise, outside speakers, field trips, and video-analysis. Students should expect to achieve an increase in source of conflict awareness and skill development in resolution techniques, as well as being able to apply this awareness and skill to their personal relationships with others. Prerequisite: COMM 3050. 3 lecture hours per week.

COMM 4580 Public Relations Case Studies 3.00 CR
This course is an upper-level exploration of the principles and practices of public relations. It provides a review of the historical evolution of public relations, the principles and theories of that profession, the terminology, strategies, and approaches used by professionals, public relations’ role in society, and its potential as a career. Through the study of contemporary PR case studies, both local and national, students learn the history and evolution of public relations as a profession: key theories that influence and shape public relations practice; the role that research plays as a cornerstone of contemporary PR practice; the relative effectiveness of various PR techniques and tactics; the ethical and legal dimensions of public relations practices; and the issues and trends that shape and will continue to shape current and future public relations practices, including the impact of new technology. Students develop and nurture critical thinking skills within the context of public relations. Prerequisite: COMM 1130. 3 lecture hours per week.

COMM 4640 Feature Writing 3.00 CR
For communications majors with an interest in writing for the print media. This course explores styles and topics of nonfiction writing for both newspapers and magazines. It also addresses the magazine industry and freelance writing. Students will write a variety of feature articles. Prerequisites: COMM 1130 and COMM 1610. 3 lecture hours per week.

COMM 4680 Advanced Reporting 3.00 CR
For communications majors with an interest in writing for the print media. Students further develop news writing and reporting skills by covering beats in the community in an attempt to get published. This is a writing-intensive course. Prerequisites: COMM 1610. 3 lecture hours per week.

COMM 4700 Adv Digital Film Production 2.00 CR
Designed as a constructivist class for majors advancing skills in Digital Motion Picture Production. Methods and protocols acquired in the 3600 series classes are put to work in real-world production environments. Participants produce student projects in documentary, short film, and commercial media and then post their projects on Final Cut Pro for distribution to film festivals and contests, but more importantly to complete their portfolios and production reels. This course is designed to develop 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 3660/3665. 2 lecture hours per week.

COMM 4705 Adv Digital Film Production LA 1.00 CR
This is the lab section for COMM 4700, a course designed as a constructivist class for majors advancing skills in Digital Film Production. Methods and protocols acquired in the 3600 series classes are put to work in real-world production environments. Participants produce student projects in documentary, short film, and commercial media and then post their projects in Final Cut Pro for distribution to film festivals and contests, but more importantly to complete their portfolios and production reels. This course is designed to develop 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. Prerequisites: COMM 3660/3665. 2 lab hours per week.

COMM 4790 Advanced Audio Design 3.00 CR
Designed for CNM (Communications New Media) majors with the objective of building on baseline audio production competencies gained in COMM 3790. Audio design in digital film requires production techniques in ambient and studio production with specific skills in Foley, ADR, mixing and re-mixing, looping and sweetening. This course addresses the theory and application of cinematic audio design, using Adobe Audition, Final Cut Pro, and Pro Tools. Curriculum focuses on examining real-world sound environments in production and developing essential design and mixing skills through hands-on application of the software and student produced digital media, as well as lecture and guest-lecture. Skills developed in this course include competency with the above mentioned software, the ability to re-create ambient and dialogue sequences through Foley, ADR and looping, and integrating tracks in sound mixes and re-mixes for final mastering. Prerequisite: COMM 3790, or instructor permission. 3 lecture hours per week.

COMM 4800 Adv Dig Film Post Production 2.00 CR
This is the lab section for COMM 4700, a constructivist class for majors advancing skills in Digital Film Production (DLE) in post-production. It is the culmination of COMM 4700 in completing the study of the production process. Majors learn NLE editing protocols for Final Cut Pro and Adobe Premier editing their footage shot for their short film projects from COMM 4700. These skills are developed hands-on with both platforms, integrating audio design and sweetening. The course may be adapted by students to integrate composited sequences as well. Prerequisite: COMM 3680/3685. 2 lecture hours per week.

COMM 4805 Adv Digital Film Post-Prod LAB 1.00 CR
This is the lab section for COMM 4800, a constructivist class for majors designed to advance non-linear editing (NLE) in post-production. It is the culmination of COMM 4700 in completing the study of the production process. Majors learn NLE editing protocols for Final Cut Pro and Adobe Premier editing their footage shot for their short film projects from COMM 4700. These skills are developed hands-on with both platforms, integrating audio design and sweetening. The course may be adapted by students to integrate composited sequences as well. Co-requisite: COMM 4800. 2 lab hours per week.

COMM 4850 Seminar: Organizational Comm 3.00 CR
This course is designed specifically for students in the Human Communication Emphasis, Organizational Communication Track. Each student will examine and apply 3-5 primary theories within a specific, modern organizational setting over the course of the semester. The course format will be conducted primarily as discussion with colleagues and the instructor with regard to theory identification, developing justification for theory application, applying theory, analyzing effects of applications, and seeking critical feedback from the instructor and classmates. Independent study away from the traditional classroom is encouraged as well as the use of interactive communication technologies (e.g., WebCT) to sustain continued contact with the instructor and classmates. Students should be able to provide consultative advice to the target organization such that organizational policies, procedures, interpersonal dynamics, and predictive outcomes can be facilitated. Prerequisite: COMM 3850. 3 lecture hours per week.
Course Descriptions

COMM 4890  Directed Study  3.00 CR
This course is designed to meet the individual needs of advanced students of junior or senior standing in the Communication department 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 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 will meet the college requirement of 45 work hours per credit. Instructor permission required.

COMM 4950  Communication Internship  1.00 - 3.00 CR
For Communications/New Media students between their junior and senior years involved in upper-division coursework completion, this internship is designed to integrate students into professional communication environments to increase competencies and initiate networking. Environments include broadcast and feature film production, corporate and business communications, public relations, and the like. 2-6 contact hours per week.

COMM 4980  Senior Seminar (Capstone)  3.00 CR
The Senior Capstone course requires students to demonstrate mastery of their studies within the Communication Degree curriculum by engaging in the successful performance of a work-related project and corollary research paper, artistic creation, and/or related portfolio. The intent is to allow the student an opportunity to illustrate his/her competency in Communication Skills as well as being able to apply those skills effectively. Instructor permission required. 3 lecture hours per week.

COMPUTER SKILLS (COMP)

COMP 1100  Begin Computer & Internet Ops  1.00 CR
This course is recommended for students who need a basic foundation in the basic operations of a personal computer. This course is designed to give the student a basic knowledge of the Windows operating system, computer concepts, and the Internet. The basics of computer hardware and software will be covered as well as file management and the accessories programs found in the Windows operating system. It will also cover Internet basics including Web browsers, and e-mail. This course is a pass/fail self-paced course which will meet elective credit guidelines but is not designed to meet the computer literacy requirement nor can it be used to meet transfer requirements for business-related programs. Course is pass/fail. 4 lab hours per week for 8 weeks.

COMP 1210  Beginning HTML  1.00 CR
This beginning course introduces Hyper Text Markup Language (HTML) which is used to prepare documents for viewing on the World Wide Web. General Web page format, tables, frames and links to graphics and other documents will be discussed. This course is a pass/fail course which will meet elective credit guidelines but is not designed to meet the computer literacy requirement nor can it be used to meet transfer requirements for business-related programs. Course is pass/fail. 1 lecture hour per week.

COMP 1310  Microsoft Word Fundamentals  1.00 CR
This course is recommended for all students. It is designed to give the student a basic knowledge of the word processors to prepare, edit, and manipulate text. The basics of word processing including 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 will be included. This course is a pass/fail course which will meet elective credit guidelines but is not designed to meet the computer literacy requirement nor can it be used to meet transfer requirements for business-related programs. Course is pass/fail. 1 lecture hour per week.

COMP 1410  Microsoft Excel for Windows  1.00 CR
This course is recommended for all students. It covers basic spreadsheet skills, including layout and labeling, entering and editing data, the use of mathematical functions for calculations, graphing, and charting results. This course is a pass/fail course which will meet elective credit guidelines but is not designed to meet the computer literacy requirement nor can it be used to meet transfer requirements for business-related programs. No prerequisites required but COMP 1100 or equivalent computer skill is highly recommended. Course is pass/fail. 4 lab hours per week for eight weeks.

COMP 1430  Financial Rec. Keeping-Quicken  1.00 CR
This course is recommended for all students who use a checkbook or keep financial records. This course is an introduction to the Quicken program which is a personal finance application that allows you to organize interrelated account, transaction, credit, and investment information. The main objective is to introduce you to Quicken’s basic features and give the student an opportunity for hands-on practice. This course is a pass/fail course which will meet elective credit guidelines but is not designed to meet the computer literacy requirement nor can it be used to meet transfer requirements for business-related programs. No prerequisites required but COMP 1100 or equivalent computer skill is highly recommended. 4 lab hours per week for eight weeks.

COMP 1435  Fin. Rec. Keeping - QuickBooks  1.00 CR
QuickBooks Pro is an inexpensive, yet powerful accounting program for Windows. This class will focus on the following: setting up a business in QuickBooks Pro, invoicing, accounts receivable, accounts payable, payroll, job costing, and report processing. This course is a pass/fail course which will meet elective credit guidelines but is not designed to meet the computer literacy requirement nor can it be used to meet transfer requirements for business-related programs. No prerequisites required but COMP 1100 or equivalent computer skill is highly recommended.

COMP 1600  Database Apps - Access  1.00 CR
For individuals with a CIS or Business emphasis and for individuals interested in database management. Teaches 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. This course is a pass/fail course which will meet elective credit guidelines but is not designed to be used to meet transfer requirements for business related programs. No prerequisites required but COMP 1100 or equivalent computer skill is highly recommended.

COMP 1700  Presentation Apps-PowerPoint  1.00 CR
This course is designed for students who desire to learn computer skills for creating Microsoft PowerPoint presentations. This course provides basic introduction to create a presentation through the preparation, editing and manipulating of slides. This includes changing slide layout and design, inserting graphics objects, formatting text and tables in slides, and preparing slides and supplements for printing. This course is a pass/fail course which will meet elective credit guidelines but is not designed to meet the computer literacy requirement nor can it be used to meet transfer requirements for business related programs. 4 lab hours per week for eight weeks. No prerequisites required but COMP 1100 or equivalent computer skill is highly recommended.

COMP 1800  Microsoft Office Publisher  1.00 CR
This course is recommended for all students. It is designed to give the student a basic knowledge of Microsoft Publisher so the student can create, design, and print publications. The basics of Microsoft Publisher are covered including working with graphic objects, enhancing a publication, improving the design of a publications, working with multiple pages, and learning some advanced publication features. This course is a self-paced course that provides flexibility for students to set their own daily schedules to meet deadlines, however, the student should plan on spending 4-6 hours a week to meet course requirements. This course is a pass/fail course which will meet elective credit guidelines but is not designed to meet the computer literacy requirement nor can it be used to meet transfer requirements for business-related programs. 4 lab hours per week for eight weeks.

COMP 2990  Seminar  1.00 - 3.00 CR
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, either students demand 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.
Course Descriptions

COMPUTER SCIENCE (CS)

CS 1010  Problem Solving with Computers  3.00 CR
Course for students interested in how computers are used to solve problems. This course will introduce the use of computers in problem solving. Topics include problem decomposition and algorithm construction. Students will be required to complete simple programming projects. 3 lecture hours per week.

CS 1400  Fundamentals of Programming  3.00 CR
Introductory course for students in Computer Science and Computer and Information Technologies programs or having general interest in computer programming. This course will instruct students in structured programming techniques and teach the syntax of a suitable high level programming language. Students will be required to complete programming projects of increasing difficulty. 3 lecture hours per week.

CS 1410  Object Oriented Programming  3.00 CR
Second course for students in Computer Science and Computer and Information Technologies programs, or having general interest in computer programming. This course will introduce students to software engineering practices, and instruct them in object oriented programming techniques. Students will be required to complete several challenging programming projects. Prerequisite: CS 1400 with a C- or better. 3 lecture hours per week.

CS 2420  Intro to Alg/Data Structures  3.00 CR
Course for students in Computer Science and Computer and Information Technologies programs or having interest in computer programming. This course will instruct students in the design and use of common data structures, lists, stacks, queues, trees, tables, hash tables, and graphs. Students will be required to complete several challenging programming projects. Prerequisite: CS 1410 with a C- or better. 3 lecture hours per week.

CS 2450  Software Engineering  3.00 CR
Course for students in Computer Science and Computer and Information Technologies programs, or having strong interest in computer programming. This course will instruct students in current software engineering theory and practice. Students will be required to complete a challenging term project, including individual and team work. Prerequisite: CS 2420 with a C- or better. 3 lecture hours per week.

CS 2810  Computer Orgn & Architecture  3.00 CR
Course for students in Computer Science and Computer and Information Technologies programs, or having interest in computer hardware. This course will instruct students in the basic building blocks of digital computers, instruction sets, number representation, interrupts, RISC and CISC architectures, etc. Students will be required to complete programming projects in a high level language and in assembly language. Prerequisite: CS 1410 with a C- or better. 3 lecture hours per week.

CS 2990  Seminar in Computer Science  0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, either students demand 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 is an elective and does not fulfill general education or program requirements. Prerequisite: Instructor permission

CS 3000  Internet Publishing and Design  3.00 CR
Course for students pursuing a degree in Computer and Information Technology (CIT) or Computer Science. Teaches Internet publishing and design principles and concepts. Topics include 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. Emphasis is on web application development and appropriate use of technologies in Internet development. Prerequisite: CS 2420 with a C- or better. 3 lecture hours per week.

CS 3100  Adv Multimedia/Internet Integ  3.00 CR
Course for students pursuing a degree in CIT or Computer Science. Teaches interactive multimedia application development. Introduces the hardware and software used to integrate text, sound, graphics, animation, and video into rich-content multimedia projects. Course includes lecture, hands-on step-by-step examples, and assignments to be completed as homework. Students learn the process of creating multimedia projects through the use of various computer-based disciplines, including graphic design, digital video, interface architecture, and light OOP-structured programming. Upon successful completion of this course, students should be able to create interactive multimedia presentations with professionally designed interfaces and rich content that is capable of delivery via a web browser or in a stand-alone application. Prerequisite: CS 2420 with a C- or better. 3 lecture hours per week.

CS 3310  Discrete Mathematics  3.00 CR
Course for students in Computer Science or Mathematics, or having an interest in the theory of counting and its applications. This course will instruct students in mathematical reasoning, combinatorial analysis, sets, permutations, relations, computational complexity, and boolean logic. Students will be required to complete programming projects. Prerequisites: MATH 1210 and CS 2420, both with a C- or better. 3 lecture hours per week.

CS 3400  Operating Systems  3.00 CR
Course for students in Computer Science or having interest in computer programming. This course will instruct students in Operating System design and use. Students will learn about processes and threads, deadlocks, memory management, input/output, and file systems. Students will be required to complete challenging programming projects. Prerequisites: CS 2420 and CS 2810, both with a C- or better. 2 lecture hours and 2 lab hours per week.

CS 3410  Distributed Systems  3.00 CR
Course for students in Computer Science or having interest in computer programming. This course will instruct students in the design and implementation of applications distributed across a network. Topics include message passing, concurrency, synchronization, scalability, and partial failure. Students will be required to complete challenging programming projects. Prerequisites: CS 2420, CS 2810 and IT 2400, all with a C- or better. 3 lecture hours per week.

CS 3500  Application Development  3.00 CR
Course for students in Computer Science and Computer and Information Technologies programs or having interest in designing and implementing programs with graphical interfaces. This course will instruct students in the theory and practice of constructing easy to use interfaces. Students will be required to complete programming projects for a suitable graphical environment. Prerequisites: CS 1410 with a C- or better. 2 lecture and 2 lab hours per week.

CS 3510  Advanced Algorithms/Data Struc  3.00 CR
Course for students in the Computer Science Program. This course will instruct students in the analysis and design of algorithms and data structures including balanced trees, graphs, greedy algorithms, divide and conquer, and dynamic programming. Prerequisites: CS 2420, CS 2810, and MATH 3310, all with a C- or better. 3 lecture hours per week.

CS 3520  Programming Languages  3.00 CR
Course for students in the Computer Science program. This course will instruct students in the principles and concepts that characterize high-level computer programming languages, including process and data abstraction, encapsulation, inheritance, functional programming, and logic programming. Prerequisites: CS 2420 and CS 2810, both with a C- or better. 3 lecture hours per week.

CS 3530  Computational Theory  3.00 CR
Course for students in the Computer Science program. This course will instruct students in the theory of computation, including finite-state automata, Turing machines, languages, grammars, and computational complexity. Prerequisites: CS 2420, CS 2810, and MATH 3310, all with a C- or better. 3 lecture hours per week.

CS 3600  Graphics Programming  3.00 CR
Course for students in Computer Science and Computer and Information Technologies programs, or having interest in game development, 3-D modeling and ren-
dering. This course will instruct students in 2-D and 3-D model creation, transformation, and various rendering techniques. Students will be required to complete programming assignments. Prerequisite: CS 2420 and CS 2810, both with a C- or better. 3 lecture hours per week.

**CS 4000 Dynamic Web Development 3.00 CR**
Course for students pursuing a degree in CIT or Computer Science. Teaches dynamic web development using PHP, an open source serve side scripting environment, and MySQL, an open source database application. Topics include basic scripts and functions, variables, form processing, server side includes, web database integration, database design, database driven web sites, security, and web management systems. Emphasis is on web application development. Prerequisite: CS 2420 and VT 1400, both with a C- or better. 3 lecture hours per week.

**CS 4010 Interactive Web Development 3.00 CR**
Course for students pursuing a degree in CIT. This course will instruct students in client-side web development using JavaScript. Topics include form validation, interactive web page development, DOM manipulation, client-side applications, and interaction with server-side applications. Students will be required to complete programming projects and design web applications. Prerequisite: CS 2420 and VT 1400, both with a C- or better. 3 lecture hours per week.

**CS 4100 Adv Multimedia/Internet Integ 3.00 CR**
Course for students pursing a degree in CIT or Computer Science. Teaches integration and application of multiple media with appropriate delivery systems. Portfolio grade projects developed through this course will add credibility to students’ job skills. Upon successful completion, students should have a solid grasp of how to develop and deliver content-rich projects with high production values via CD-ROM, Internet, and DVD media. Prerequisite: CS 2420 with a C- or better. 3 lecture hours per week.

**CS 4300 Artificial Intelligence 3.00 CR**
Upper level course for students in Computer Science and Computer and Information Technologies programs. This course covers the basics of Artificial Intelligence in computer software. The course introduces the broad field of Artificial Intelligence, then specializes in Artificial Intelligence as it applies to computing gaming strategies. Students will be required to complete programming assignments. Prerequisites: CS 2420 and CS 2810, both with a C- or better. 3 lecture hours per week.

**CS 4550 Compilers 3.00 CR**
Course for students in Computer Science or having interest in computer programming. This course will instruct students in compiler design and implementation. Students will learn about lexical analysis, parsing, symbol table management, and generating code. Students will be required to complete challenging programming projects. Prerequisites: CS 2420 and CS 2810, both with a C- or better. 3 lecture hours per week.

**CS 4600 Senior Project 3.00 CR**
Course for students in Computer Science and Computer and Information Technologies programs. This course will instruct students in advanced topics of software engineering. Teams of students will be required to complete an aggressive programming project. Instructor permission required. 3 lecture hours per week.

**CS 4990 Seminar in Computer Science 1.00 - 3.00 CR**
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, either students demand 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.

**Course Descriptions**

**DANCE (DANC)**

**DANC 1010 Dance Appreciation *FA 3.00 CR**
A beginning theoretical dance course for students with an emphasis in dance, and for all students interested in fulfilling the general education fine arts requirements. The course is designed to introduce the definition of dance, the different types and styles of dance, and an understanding of, and an appreciation for dance. It is also designed to familiarize students with individuals who have made significant contributions in the dance field, and to enable students to make certain critical analyses: to identify style, form, content and technique. It is taught through lecture, video observation and participation. There are no prerequisites for this class. 3 lecture hours per week.

**DANC 1100 Classical Ballet I 2.00 CR**
For students with an emphasis in dance and for all students interested in developing skills in ballet. This course is designed to give students an introduction to the fundamentals of classical ballet through movement, including body alignment, technical skills (barre and center) and ballet terminology. Fundamentals are taught in a structured ballet studio setting. Can be repeated for credit. This course is a prerequisite to DANC 2100. Taught fall semester only. 3 studio hours per week.

**DANC 1170 Social Dance 1.00 CR**
A beginning social ballroom dance course for students with an emphasis in dance, and for all students interested in developing skills in social dance. This course is designed to introduce the basic ballroom dance movements and routines as well as specific demands of correct partner work. It includes instruction in selected dances, mastery of step patterns, movement quality and style. Taught in a studio format. 2 studio hours per week.

**DANC 1200 Modern Dance I 2.00 CR**
A beginning modern dance technique course for students with an emphasis in dance, and for all students interested in developing skills in modern dance. This course is designed to introduce basic modern dance movements and an understanding of and an appreciation for modern dance. Students who successfully complete this course will have beginning modern dance skills and be prepared to enroll in DANC 2200. Can be repeated for credit. 3 lecture hours per week.

**DANC 1500 Jazz Dance I 2.00 CR**
For students with an emphasis in dance, and for all students interested in developing skills in jazz dance. Studies American Jazz dance with an emphasis on technique. Rhythmic structures and personal expression will be explored. Taught in a traditional jazz studio format. Students should achieve a personal style of movement. Successful student completers will be prepared to enroll in DANC 2500. 3 studio hours per week.

**DANC 1510 Balloon Dance I Standard 1.00 CR**
For students with an emphasis in dance, and for all students interested in developing skills of international standard ballroom dance. Teaches beginning level of International Standard Ballroom Dance including Waltz, Foxtrot, Tango and Quickstep. Emphasizes, on a beginning level, correct dance position, rhythm, footwork and etiquette. Successful completers will have a good general knowledge of beginning level of international standard ballroom dance. 2 studio hours per week.

**DANC 1520 Ethnic Dance I 1.00 CR**
For students with an emphasis in dance, and for all students interested in developing skills of international ethnic/folk dance. This course is designed to introduce students to dance styles from around the world. Students will learn standard steps and formations used in a variety of dances. Successful completers will have a good general knowledge of beginning level of International ethnic/folk dance. 2 studio hours per week.

**DANC 1530 Balloon Dance I/I Int’l Latin 1.00 CR**
For students with an emphasis in dance, and for all students interested in developing skills of international Latin ballroom dance. Teaches beginning level of International Latin ballroom dance including Cha-cha, Samba, Rumba and Jive. Emphasizes, on a beginning level, correct dance position, rhythm, footwork and etiquette. Successful completers will have a good general knowledge of beginning level of international Latin ballroom dance. 2 lecture hours per week.
Course Descriptions

DANC 1540 Movement for Music Theatre 1.00 CR
For students with an emphasis in dance, and for all students interested in developing skills in dance movement styles for musical theater. Required for students with an emphasis in dance and for students with an emphasis in theatre performance. Studies style and technique for dance in preparation for Dixie College theatre productions. May include tap and character dance. Taught in a studio setting; also uses verbal description, demonstration and video. Successful completion will have increased skills in preparation for musical theatre auditions and performance. May be repeated for credit.

DANC 1800 Dance Company I 2.00 CR
For all freshmen who wish to be a member of the Dixie State College Dance Company. Teaches dance techniques and performing skills that are required for dance performances. Prepares students in dance technique and artistic expression aspects for dance performances and for their future dance careers. Emphasizes the development of personal discipline and collaborative skills. Rehearses dance productions for dance performances. Can be repeated for credit. Course fee required. Prerequisite: Audition or instructor permission required.

DANC 1900 Dance Composition I 2.00 CR
For students with an emphasis in dance, and for all students interested in dance composition. This course is designed to provide students a studying experience of dance composition/chorography through a structured studio setting. Fundamental concepts of dance composition/chorography are learned and explored. Elements of space, time and qualities of movement are basis for compositional study. Course requires some previous dance experience. Instructor permission required. Elective credit. 3 studio hours per week.

DANC 2100 Classical Ballet II 2.00 CR
For students with an emphasis in dance, and for all students interested in developing skills in ballet. A continuation of DANC 1100. Focus on progression and development of ballet vocabulary and technical skills, with increased difficulty at the barre, center floor and traveling steps. Can be repeated for credit. 3 lecture hours per week.

DANC 2200 Modern Dance II 2.00 CR
For students with an emphasis in dance, and for all students interested in developing skills in modern dance. A continuation of DANC 1200. 2 lecture hours per week.

DANC 2221 Pointe I 1.00 CR
Students 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. At the completion of the semester, students should be able to successfully execute a short, simple variation en pointe. Taught spring semester. 2 studio hours per week.

DANC 2500 Jazz Dance II 2.00 CR
This course is designed for students with an emphasis in dance, and for all students interested in developing skills in jazz dance (a continuation of DANC 500). The course is designed to teach more difficult combinations, introduce performance styles, and is taught in traditional jazz studio format. Successful student completers will further develop a personal style of movement. Can be repeated for credit. 3 studio hours per week.

DANC 2510 Ballroom Dance II - Int'l Std 1.00 CR
This course is the next step for a student after a beginning level class in the international standard style of ballroom dancing. The dances covered in this class will be Waltz, Tango, Quickstep, and Foxtrot. Greater emphasis is given on the footwork, posture, movement and alignment. Although this class is more structured than a beginning class, it is still intended to provide an enjoyable experience. At the end of the course students should be able to dance the routines taught using proper footwork and rhythm. Prerequisite: DANC 1510. 2 lecture hours per week.

DANC 2800 Dance Company II 2.00 CR
For all sophomores who wish to be a member of the Dixie State College Dance Company. Teaches dance techniques and performing skills that are required for dance performances. Prepares students in dance technique and artistic expression aspects for dance performances and for their future dance career. Emphasizes the development of personal discipline and collaborative skills. Rehearses dance productions for dance performances. Can be repeated for credit. Course fee required. Prerequisite: Audition or instructor permission required.

DANC 2990 Seminars in Dance 0.50 - 3.00 CR
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.

DANC 3200 Modern Dance III, Advanced 2.00 CR
An advanced modern dance technique course for dance students and for all students interested in developing advanced technical skills in modern dance. A continuation of DANC 2200. It is designed to increase the difficulty and to enhance the quality of modern dance movements. It is the progression of development with modern dance technical and performing skills. Prerequisite: DANC 2200 or instructor permission.

DENTAL HYGIENE (DHYG)

DHYG 1010 Dental Hygiene Theory I 3.00 CR
The students will be introduced to the theoretical foundations of preventative oral health services used in the dental hygiene process. Emphasis is on 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: Acceptance into Dental Hygiene Program is required. 3 lecture hours per week.

DHYG 1015 Dental Hygiene Clinic I 3.00 CR
The student will take this course concurrently with DHYG 1010, Dental Hygiene Theory I. The student will gain clinical and laboratory application of introductory skills essential to rendering oral health services to patients with emphasis on basic dental hygiene instrumentation. Prerequisite: Acceptance into Dental Hygiene Program is required. Corequisite: DHYG 1010. 9 clinic hours per week.

DHYG 1800 Dental Hygiene Work Experience 1.00 - 3.00 CR
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. Fall section.

DHYG 1810 Dental Hygiene Work Experience 1.00 - 3.00 CR
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. Spring section.
**Course Descriptions**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHYG 1820</td>
<td>Dental Hygiene Work Experience</td>
<td>1.00 - 3.00 CR</td>
<td>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. Summer section.</td>
</tr>
<tr>
<td>DHYG 2020</td>
<td>Radiology</td>
<td>2.00 CR</td>
<td>The students will be required to study the nature and production of x-rays and basic principles and procedures in oral radiology. Emphasis is on radiation physics, radiation biology, radiation protection, basic intra-oral radiographic techniques, film processing, and mounting procedures. Emphasis is placed on supplemental intra-oral techniques, extraoral techniques, localization techniques, radiographic interpretation, and patient management topics. Prerequisite: Acceptance into Dental Hygiene Program is required. Corequisite: DHYG 2025. 2 lecture hours per week.</td>
</tr>
<tr>
<td>DHYG 2025</td>
<td>Radiology Clinic</td>
<td>1.00 CR</td>
<td>This course is the clinical hands-on portion of DHYG 2020. The student will participate in taking intra-oral radiographs on mannequins and patients. Prerequisite: Acceptance into Dental Hygiene Program is required. Corequisite: DHYG 2020. 3 clinic hours per week.</td>
</tr>
<tr>
<td>DHYG 2035</td>
<td>Head/Neck Anatomy</td>
<td>3.00 CR</td>
<td>The student will study the anatomy and physiology of the teeth, of the issues of the oral cavity, and of the head and neck. Emphasis is on location, function, and nomenclature, muscles of the head and neck, and occlusion. Prerequisite: Acceptance into Dental Hygiene Program is required. 3 lecture hours per week.</td>
</tr>
<tr>
<td>DHYG 2040</td>
<td>Tooth Morphology</td>
<td>1.00 CR</td>
<td>The student will be able to identify the structures that make up the roof, the floor and the lateral borders of the oral cavity proper at all stages of development. Included in this are the following areas of discussion: oral cavity, tooth functions, terminology, fundamental and preventative curvatures of the oral cavity, the dentition, the development, form, and eruption of the teeth, occlusion, dental anomalies, supporting structures of the teeth, clinical consideration of the dental anatomy, tooth identification and morphology and examination of the deciduous dentition. Prerequisite: Acceptance into Dental Hygiene Program. Corequisite: DHYG 2045. 1 lecture hour per week.</td>
</tr>
<tr>
<td>DHYG 2045</td>
<td>Tooth Morphology Lab</td>
<td>1.00 CR</td>
<td>This course is the laboratory portion of DHYG 2040. Prerequisite: Acceptance into Dental Hygiene Program. Corequisite: DHYG 2040. 2 lab hours per week.</td>
</tr>
<tr>
<td>DHYG 2052</td>
<td>Oral Histology/Embryology</td>
<td>2.00 CR</td>
<td>To acquire an understanding of how cells, tissues, and organs develop and function, with emphasis placed on the oral cavity, including a review of basic cell and embryologic developments. Histology of the structures of the oral cavity from embryonic stages through complete development are examined. Common embryologic defects of the oral cavity are covered also. Prerequisite: Acceptance into Dental Hygiene Program is required. 2 lecture hours per week.</td>
</tr>
<tr>
<td>DHYG 2062</td>
<td>Medical Emergencies</td>
<td>3.00 CR</td>
<td>The student will study the psycho-social, physical and oral characteristics of patients with special needs. The care and clinical management of special needs patients, along with the management of medical emergencies in the clinical setting, will be taught. Prerequisite: Acceptance into Dental Hygiene Program is required. 3 lecture hours per week.</td>
</tr>
<tr>
<td>DHYG 2510</td>
<td>Dental Hygiene Theory II</td>
<td>3.00 CR</td>
<td>The students will have a continuation of the study of the theoretical foundations of preventative and therapeutic oral health services used in the dental hygiene process. Emphasis is on preparation for patient care. Prerequisite: Acceptance into Dental Hygiene Program is required. Corequisite: DHYG 2517. 3 lecture hours per week.</td>
</tr>
<tr>
<td>DHYG 2517</td>
<td>Dental Hygiene Clinic II</td>
<td>4.00 CR</td>
<td>The students will have a continuation of the study of the theoretical foundations of preventative and therapeutic oral health services used in the dental hygiene process. Emphasis is on preparation for patient care. Prerequisite: Acceptance into Dental Hygiene Program is required. Corequisite: DHYG 2517. 4 lecture hours per week.</td>
</tr>
<tr>
<td>DHYG 2520</td>
<td>General/Oral Pathology</td>
<td>3.00 CR</td>
<td>The students will analyze the principles of disease processes and general pathology. This will include 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. Emphasis is on the clinical and radiological appearance of local and systemic disease processes affecting the oral and facial structures. Prerequisite: Acceptance into Dental Hygiene Program is required. 3 lecture hours per week.</td>
</tr>
<tr>
<td>DHYG 2530</td>
<td>Pharmacology</td>
<td>2.00 CR</td>
<td>The students will gain an understanding of pharmacological and therapeutic agents. The preparation, chemical formula, effects, and applications of these agents are analyzed. Prevention and management of medical emergencies in the dental field using medications are evaluated. Emphasis will be placed on prescription and nonprescription drugs commonly used by patients seen in dental practice. These may require the alteration of treatment procedures and medications used in the dental setting. Medical emergency agents used in medical emergency procedures will be investigated. Prerequisite: Acceptance into Dental Hygiene Program is required. 3 lecture hours per week.</td>
</tr>
<tr>
<td>DHYG 2540</td>
<td>Periodontics I</td>
<td>3.00 CR</td>
<td>Emphasis will be on the principles of periodontology involving assessment, etiology, risk factors, and classification of periodontal disease; basic treatment planning, and non-surgical periodontal therapy. The student will gain knowledge in the various types of therapeutic techniques available. Prerequisite: Acceptance into Dental Hygiene Program is required. 3 lecture hours per week.</td>
</tr>
<tr>
<td>DHYG 2580</td>
<td>Dental Materials</td>
<td>1.00 CR</td>
<td>The student will be introduced to the various products and materials involved with dentistry. This course gives the student a comprehensive background in the art, science and use of dental materials. Students discuss the physical properties of metals, hydrocarbons, and other materials as well as advantages and disadvantages of these materials in dentistry. Examination of these materials: allergenicity or other complications that may arise from use of these materials are evaluated. Prerequisite: Acceptance into Dental Hygiene Program is required. Corequisite: DHYG2585. 1 lecture hour per week.</td>
</tr>
<tr>
<td>DHYG 2585</td>
<td>Dental Materials Lab</td>
<td>1.00 CR</td>
<td>This is the laboratory portion of DHYG 2580. Prerequisite: Acceptance into Dental Hygiene Program. Corequisite: DHYG 2580. 2 lab hours per week.</td>
</tr>
<tr>
<td>DHYG 3015</td>
<td>Dental Hygiene Clinic IV</td>
<td>5.00 CR</td>
<td>The students will be required to gain experience in the supervised clinical setting. Continued development of clinical proficiency and decision making in rendering comprehensive preventive oral health services using dental hygiene process will be necessary. Emphasis will be 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. This is a service learning project. Prerequisite: Acceptance into Dental Hygiene Program is required. 16 clinic hours per week.</td>
</tr>
<tr>
<td>DHYG 3020</td>
<td>Special Needs</td>
<td>2.00 CR</td>
<td>The student will study the psycho-social, physical and oral characteristics of patients with special needs. The care and clinical management of special needs patients in the clinical setting will be taught. The students will be actively involved in the local community, teaching, treating, and managing the care of the special needs patient. Instead of this class being a strictly didactic course, it has become an active, hands-on, clinical experience, with the special needs community. This is a service learning course. Prerequisite: Acceptance into Dental Hygiene Program is required. Corequisite: DHYG 3025. 2 lecture hours per week.</td>
</tr>
<tr>
<td>DHYG 3030</td>
<td>Periodontics II</td>
<td>2.00 CR</td>
<td>Continued study of periodontal diseases from DHYG 2540 with emphasis on aggressive forms, periodontal treatment planning, maintenance procedures, surgical procedures, related systemic diseases and therapy. Prerequisites: Acceptance into the Dental Hygiene Program is required. DHYG 2540. 2 lecture hours per week.</td>
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</tbody>
</table>
Course Descriptions

DHYG 3050 Legal/Ethical Issues 2.00 CR
The student will study current legal and ethical issues that influence the practice of dental hygiene. Prerequisite: Acceptance into the Dental Hygiene Program is required. 2 lecture hours per week.

DHYG 3055 Expanded Functions Clinic I 1.00 CR
Clinical application of expanded duties for the dental hygienist. These duties include anesthesia, placing and removing rubber dams; matrix and wedge; placing bases and liners; placing, carving, and finishing amalgam restorations; placing and finishing tooth-colored restorations; placing temporary restorations; and four-handed dentistry. Prerequisite: DHYG 3850, 3 clinical hours per week.

DHYG 3060 Community Dental Health I 2.00 CR
The student will have an introduction to the principles of dental public health, community dental health education and community program planning. This course will prepare the dental hygiene student for the role of dental public health practitioner, educator, consultant and resource person in community settings. Students will prepare educational learning activities and visual aids designed for diverse community groups. Prerequisite: Acceptance into Dental Hygiene Program is required. Corequisite: DHYG 3065, 2 lecture hours per week.

DHYG 3065 Community Dental Health I Clin 1.00 CR
This is the clinical portion of DHYG 3060. The student will participate in 3 hours of clinical experience each week in clinical situations associated with community dental health. This is a service learning course. Prerequisite: Acceptance into Dental Hygiene Program is required. Corequisite: DHYG 3060, 3 clinical hours per week.

DHYG 3515 Dental Hygiene Clinic V 5.00 CR
The student will gain clinical experience in a supervised clinic setting. Continued development of clinic proficiency and decision making in rendering comprehensive preventive oral health services using the dental hygiene process will be necessary. Emphasis will be on a clinical application and development of skills in maintenance, management and evaluation of periodontal patient; treatment planning, disease control; and scaling and root planning on periodontally involved patients. Prerequisite: Acceptance into the Dental Hygiene Program is required. 16 clinical hours per week.

DHYG 3555 Expanded Functions Clinic II 1.00 CR
Continuation and amplification of skills developed in DHYG 3850 and DHYG 3055, emphasizing clinical experience in restorative expanded functions and four-handed dentistry. Prerequisites: DHYG 3850 and DHYG 3055, 3 clinical hours per week.

DHYG 3565 Community Dental Health II Clin 1.00 CR
This is the clinical portion of DHYG 3060. The student will participate in 3 hours of clinical experience each week in clinical situations associated with community dental health. This is a service learning course. Prerequisite: Acceptance into Dental Hygiene Program is required. Corequisite: DHYG 3060, 3 clinical hours per week.

DHYG 3570 Dental Hygiene Practice Mgmt 1.00 CR
This course is offered to second-year dental hygiene students to aid them in preparation for specific national, regional, and state boards. The course’s purpose is to increase the student’s knowledge in preparing to take the particular board(s) they choose to participate in and aid their entry into dental private practice. Prerequisite: Acceptance into Dental Hygiene Program is required. 1 lecture hour per week.

DHYG 3580 Advanced Clinical Studies 1.00 - 3.00 CR
This course is offered to postgraduate dental hygienists awaiting their opportunity to take their choice of a Clinical Board Exam or current DH students needing more clinical time and experience to complete clinical requirements. This class provides 45 hours of supervised clinical time per credit in maintaining and/or improving a graduate’s dental hygiene skills. Permission granted for course on an as needed basis by the Dental Hygiene Program Director. 3-9 clinical hours per week. Prerequisites: 1) DHYG 1015, DHYG 2517, DHYG 3015, DHYG 3515; or 2) AAS degree graduate or other licensed dental hygienist needing more clinical remediation as approved by the DH program director.

DHYG 3815 Dental Hygiene Clinic III 2.00 CR
This course allows the student dental hygienist to increase experience and continual development of clinical proficiency and decision making in providing preventative oral health services. This is a service learning course. 6 clinic hours per week.

DHYG 3850 Expanded Functions Lab 1.00 CR
This course is a clinical introduction to various dental functions in the dental practice. These include, but may not be limited to: taking impressions, selecting and placing different restorative materials along with polishing and contouring of the restorations. Prerequisite: Completion of the second semester of the Dental Hygiene Program required to enroll in this class. 2 lab hours per week.

DHYG 3890 Pain Control Methodology 1.00 CR
The students will be introduced to the administration of local anesthetics and nitrous oxide/oxygen analgesia. Use of pharmacological agents in the dental office are compared, contrasted, and justified. Physical and emotional evaluation of patients are taken into consideration along with their anatomical and neurophysiological characteristics. Management of medical emergencies are analyzed and related to the pharmacological agents used in the dental setting. Prerequisite: Acceptance into Dental Hygiene Program is required. Corequisite: DHYG 3895. 1 lecture hour per week.

DHYG 3895 Pain Control Methodology Clin 1.00 CR
This is the clinical portion of DHYG 3890. The student will practice the administration of local anesthetic and nitrous oxide/oxygen analgesia to patients. Corequisite: DHYG 3890. 3 clinical hours per week.

DHYG 4010 Biostatistics & Epidemiology 2.00 CR
Principles and methods of epidemiologic investigation and the use of classical statistical approaches to describe the oral health of populations. Prerequisite: Acceptance into the Bachelor of Dental Hygiene Completion Program is required.

DHYG 4020 Research Methodology 2.00 CR
This course focuses on the theories, concepts, and principles of leadership. Prerequisites: DHYG 3555, 2 lecture hours per week.

DHYG 4030 Leadership and Group Dynamics 2.00 CR
This course is offered to postgraduate dental hygienists awaiting their opportunity to take their choice of a Clinical Board Exam or current DH students needing more clinical time and experience to complete clinical requirements. This class provides 45 hours of supervised clinical time per credit in maintaining and/or improving a graduate’s dental hygiene skills. Permission granted for course on an as needed basis by the Dental Hygiene Program Director. 3-9 clinical hours per week. Prerequisites: 1) DHYG 1015, DHYG 2517, DHYG 3015, DHYG 3515; or 2) AAS degree graduate or other licensed dental hygienist needing more clinical remediation as approved by the DH program director.

DHYG 4510 Instruct. Design & Measurement 2.00 CR
Introduction to basic educational concepts of teaching health care professionals. Topics include health education course development and design; learning objectives; and evaluation and measurement. Prerequisite: Acceptance into the Bachelor of Dental Hygiene Completion Program is required.

DHYG 4520 Instructional Practice 2.00 CR
Provides students with knowledge and skills involved in laboratory and clinical instruction. Psychomotor skill development, analysis and remediation of performance problems are stressed. Prerequisite: Acceptance into the Bachelor of Dental Hygiene Completion Program is required. 2 lecture hours per week.

DHYG 4530 Psych. & Philosophical Fdns 2.00 CR
Emphasis will be placed on curriculum planning and implementation. Includes teaching philosophies and methodologies. Foundations of teaching such as principles of learning, learning styles and motivation, case-based learning, and using educational media and software. Prerequisite: Acceptance into the Bachelor of Dental Hygiene Completion Program is required. 2 lecture hours per week.

DHYG 4540 Public Hlth & Cult. Diversity 2.00 CR
The student will learn about the historical and evolutionary concepts of public health. Exploration of social responsibility and population characteristics. A basic knowledge of working with cultural diversity in public health settings. Prerequisite: Acceptance into the Bachelor of Dental Hygiene Completion Program is required. 2 lecture hours per week.
ECON 1010 Economics of Social Issues *SS 3.00 CR
For students seeking to fulfill the social science requirement for general education. The course does not fill Business pre-core requirements. The course offers an introduction to the way economic theory explains scarcity, consumer and producer choice, competition and monopoly, labor, capital, and resource markets, antitrust and other government regulation, and income distribution. Uses lectures, test study, library assignments, films, writing, and exams. The course helps students understand and appreciate the ideas, processes, dynamics and institutions that underlie the social and economic system, and it gives them a foundation for higher education work. 3 lecture hours per week.

ECON 1800 Education Work Experience 1.00 - 3.00 CR
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. Fall section.

EDUC 1810 Education Work Experience 1.00 - 3.00 CR
Cooperative Education relates the classroom to the employment community. Those...
Course Descriptions

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. Spring section.

EDUC 1820 Education Work Experience 1.00 - 3.00 CR
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. Summer section.

EDUC 2010 Intro to Exceptional Learners 3.00 CR
Required pre-requisite 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. 3 lecture hours per week.

EDUC 2400 Fndns/Multicultural/ESL Educ 3.00 CR
Required prerequisite 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 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. 3 lecture hours per week.

EDUC 2500 Tech/Educ/Elect Port (K-12) 3.00 CR
Required pre-requisite 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 education career. 3 lecture hours per week.

EDUC 2800 Instruction/Tech/Asmt/Plan 3.00 CR
For ARL teachers only. ARL candidates 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. Instructor permission required. 3 lecture hours per week.

EDUC 2820 Creating/Learning Environment 3.00 CR
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. Instructor permission required. 3 lecture hours per week.

EDUC 2840 Literacy Strategies 3.00 CR
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. Instructor permission required. 3 lecture hours per week.

EDUC 2860 Survey/Learn/Teach/Diverse Pop 3.00 CR
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. Instructor permission required. 3 lecture hours per week.

EDUC 2990 Seminar in Education 0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, students request some type of non- traditional instruction, or an unexpected 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 in an elective and does not fulfill general education or program requirements. Prerequisite: Instructor permission. Some seminar courses may require fees.

EDUC 3110 Educational Psychology 3.00 CR
Required pre-requisite 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 will be placed on how to apply the theories and practices of educational psychology into day-to-day teaching practices. 3 lecture hours per week.

EDUC 3990 Seminar in Education 0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, students request some type of non-traditional instruction, or an unexpected 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 in an elective and does not fulfill general education or program requirements. Prerequisite: Instructor permission. Some seminar courses may require fees.

EDUC 4990 Seminar in Education 0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, students request some type of non-traditional instruction, or an unexpected 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 in an elective and does not fulfill general education or program requirements. Prerequisite: Instructor permission. Some seminar courses may require fees.
## Course Descriptions

### ELEMENTARY EDUCATION (ELED)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELED 3100</td>
<td>Curriculum/Design/Plan/Assmt</td>
<td>3.00 CR</td>
<td>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 ensuring 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. Practicum required. Prerequisite: Admission into the Dixie State College Elementary Education Program. 2 lecture hours and 2 practicum hours per week.</td>
</tr>
<tr>
<td>ELED 3150</td>
<td>Prin of Early Childhood Edu</td>
<td>2.00 CR</td>
<td>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. Practicum required. Prerequisite: Admission into the Dixie State College Elementary Education Program. 2 lecture hours per week.</td>
</tr>
<tr>
<td>ELED 3250</td>
<td>Effective Classroom Mgmt</td>
<td>3.00 CR</td>
<td>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). Practicum required. Prerequisite: Admission into the Dixie State College Elementary Education Program. 2 lecture hours and 2 practicum hours per week.</td>
</tr>
<tr>
<td>ELED 3300</td>
<td>Literacy/Intermediate Grades</td>
<td>3.00 CR</td>
<td>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). This 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. Practicum required. Prerequisite: Admission to Dixie State College Elementary Education program. 2 lecture hours and 2 practicum hours per week.</td>
</tr>
<tr>
<td>ELED 3350</td>
<td>Literacy Acquisition/Yng Child</td>
<td>3.00 CR</td>
<td>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 those pedagogical skills during a field experience in the public schools. Practicum required. Prerequisite: Admission to Dixie State College Elementary Education program. 2 lecture and 2 practicum hours per week.</td>
</tr>
<tr>
<td>ELED 3410</td>
<td>Lang Acquisition/Cognition ESL</td>
<td>3.00 CR</td>
<td>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. Practicum required. Prerequisite: Admission into the Dixie State College Elementary Education program. 2 lecture hours and 2 practicum hours per week.</td>
</tr>
<tr>
<td>ELED 3420</td>
<td>Assessment for ESL Education</td>
<td>3.00 CR</td>
<td>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. Practicum required. Prerequisite: Admission into the Dixie State College Elementary Education program. 2 lecture hours and 2 practicum hours per week.</td>
</tr>
<tr>
<td>ELED 3500</td>
<td>Methods/Healthy Lifestyle &amp; PE</td>
<td>3.00 CR</td>
<td>Required for all Elementary Education students. This course develops the knowledge, skills and dispositions necessary to teach healthy lifestyles and physical education to elementary-age 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. Practicum required. Prerequisite: Admission into the Dixie State College Elementary Education program. 2 lecture and 2 practicum hours per week.</td>
</tr>
<tr>
<td>ELED 3550</td>
<td>Curr/Early Childhood Edu</td>
<td>3.00 CR</td>
<td>Required for all Elementary Education students. This course will prepare teacher candidates to plan and implement an integrated curriculum with developmentally appropriate activities for young learners of diverse backgrounds. The course will emphasize lesson plan development, routines and schedules, curriculum philosophies, presentation skills, and resource development aligned with state and national standards. Teacher candidates will practice applying their learning during a required field experience. Practicum required. Prerequisite: Admission to the Dixie State College Elementary Education program. 2 lecture hours and 2 practicum hours per week.</td>
</tr>
<tr>
<td>ELED 3650</td>
<td>Assessment of Young Children</td>
<td>2.00 CR</td>
<td>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. 2 lecture hours.</td>
</tr>
<tr>
<td>ELED 3900</td>
<td>Diff Instr for Excp Children</td>
<td>3.00 CR</td>
<td>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 the practicum setting. Practicum required. Prerequisite: Admission into the Dixie State College Elementary Education program. 2 lecture hours and 2 practicum hours per week.</td>
</tr>
<tr>
<td>ELED 4100</td>
<td>Methods/Tchng Elem Mathematic</td>
<td>3.00 CR</td>
<td>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 during 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. Practicum required. Prerequisite: Admission to Dixie State College Elementary Education program. 2 lecture hours and 2 practicum hours per week.</td>
</tr>
<tr>
<td>ELED 4200</td>
<td>Fine Arts in Elementary</td>
<td>2.00 CR</td>
<td>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. 2 lecture hours per week.</td>
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</tbody>
</table>
## Course Descriptions

**ELED 4300 Methods/Tchg Elem Science**  
3.00 CR  
Required for all Elementary Education students. Teacher candidates will develop effective instructional methods and assessments based on required K-6th science subject matter, National Education Science Standards (NESS), and state curriculum goals. Lecture, seminar discussion, hands-on experiences, and practicum in local schools are the modes of instruction. Practicum required. Prerequisite: Admission to the Dixie State College Elementary Education program.  Practice required. 2 lecture and 2 practicum hours per week.

**ELED 4400 Methods/Tchg Elem Soc Sci**  
3.00 CR  
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. Practicum required. Prerequisite: Admission into the Dixie State College Elementary Education program. 2 lecture and 2 practicum hours per week.

**ELED 4410 Method/Strat/Mat/Lang Art ESL**  
3.00 CR  
Required for all Elementary Education students. This course partially fulfills the requirement for ESL Endorsement. This course will focus on the instructional strategies and methodologies for ESL students in elementary schools. Course content will include 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. Practicum required. Prerequisite: Admission to Dixie State College Elementary Education program. 2 lecture hours and 2 practicum hours per week.

**ELED 4430 Family/Parent/Involmt/Educ-ESL**  
2.00 CR  
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 into the Dixie State College Elementary Education program. 3 week course. 2 lecture hours per day.

**ELED 4440 Integrating Lang & Content**  
3.00 CR  
Required for all Elementary Education students. This course partially fulfills the requirement for ESL Endorsement. Teacher candidates will utilize previously developed methodologies to meet the needs of ESL students in their respective classrooms. The course is designed to integrate the concepts and skills learned in previous ESL endorsement coursework into the student teaching experience. This course will provide techniques and strategies to accommodate ESL students and mainstream students. Prerequisite: Admission into the Dixie State College Elementary Education program. 3 week course. 3 lecture hours per day.

**ELED 4600 Method/Tchg Elem Lang Arts**  
2.00 CR  
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 to transfer their knowledge, dispositions, and teaching skills to experiences in local schools. Prerequisite: Admission into the Dixie State College Elementary Education program. 2 lecture hours per week.

**ELED 4900 Student Teaching**  
9.00 CR  
Required for all Elementary Education students. Ten weeks of student teaching experience in two 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. Must be taken concurrently with ELED 4989. Prerequisite: Admission to Dixie State College Elementary Education program. 40 hours per week.

**ELED 4950 Internship Teaching I**  
3.00 CR  
For education majors. The first semester of a full year of internship teaching 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 districts in new teacher induction training. At the conclusion of the internship the student is eligible for State licensure in teaching.

**ELED 4960 Internship Teaching II**  
3.00 CR  
For education majors. The second semester of a full year of internship teaching 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 districts in new teacher induction training. At the conclusion of the internship the student is eligible for State licensure in teaching.

**ELED 4989 Capstone**  
1.00 CR  
Required for all Elementary Education students. Teacher candidates will develop 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 portfolio and teacher work sample in its entirety and to develop the skills and knowledge necessary to find a teaching position. Must be taken concurrently with ELED 4900. Prerequisite: Admission into the Dixie State College Elementary Education program. 1 lecture hour per week.

**EMERGENCY MEDICAL SERVICES (EMS)**

**EMS 1100 EMT Basic**  
9.00 CR  
Emergency Medical Training - (EMT-B) Presents instruction in theory and practice of first aid. Provides the student with knowledge and skill 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. 9 lecture hours per week.

**EMS 1200 EMT Intermediate**  
4.50 CR  
This course allows Basic Emergency Medical Technicians who have been certified for a minimum of one year, to continue their training in the areas of: extended patient assessment, Intravenous (IV) initiation and therapy, medical and legal considerations, advanced shock, pediatric vascular access, drug management of selected drugs, EKG management and recognition, and oral intubation. Prerequisite: Basic EMT for one year.

**EMS 1300 Advanced Cardiac Life Support**  
3.00 CR  
Advanced Cardiac Life Support is a course designed by the American Heart Association to provide hospital and pre-hospital care givers training in advanced techniques of life support for the cardiovascular and respiratory compromised patient. Some of the techniques taught are: dysrhythmia recognition and treatment, respiratory compromise, and treatment; and recognition of signs and symptoms of cerebral vascular accident patients and treatment. Some pre-hospital or hospital experience is required and this class is offered by instructor permission only.

**EMS 2200 Paramedic Training I**  
6.00 CR  
This is the first course in a five-course series. The course includes lecture and laboratory training in topics such as EMS communications, winter rescue skills, rescue operations, major incident response, 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 patient assessment. Prerequisite: Acceptance into Emergency Medical Services Program. 6 lecture hours per week.

**EMS 2300 Paramedic Training II**  
6.00 CR  
This course includes lecture and laboratory training in topics such as synchronized
Cardioversion, cardiac pacing, cardiac drugs, MEGA Code, ad PASS PARAMEDIC TAPE national protocols. Prerequisite: EMS 2200, or taken concurrently and acceptance into Emergency Medical Services Program. 6 lecture hours per week.

EMS 2400 Paramedic Training III 6.00 CR
This course includes lecture and laboratory training in topics such as cricothyrotomy, chest venting, external jugular cannulation, and summer rescue skills. Ride-along hours are also required. Prerequisite: EMS 2300 and acceptance into Emergency Medical Services Program. 6 lecture hours per week.

EMS 2500 Paramedic Training IV 6.00 CR
This course includes lecture and laboratory training in topics such as spinal immobilization of the lying and sitting patients, chest needle decompression, IV/Bolus/Piggy Back medications, bleeding, wound care, shock, long bone splitting, ventilatory management, dynamic cardiologic, static cardiologic, and extrication. Ride along and field course are continued and concluded during EMS 2500. Prerequisite: EMS 2400 or taken concurrently and acceptance into Emergency Medical Services Program. 6 lecture hours per week.

EMS 2600 Paramedic Training V 6.00 CR
This course is designed to give the student a wide variety of in-field opportunities that have not been directly correlated with previous paramedic courses or directly related to specific paramedic topics. It provides hands on practice of current and previously learned skills. It includes an ongoing field assessment and evaluation of the student’s performance and competency. It will assist the student in preparation for state and national certification. Prerequisite: Acceptance into Emergency Medical Services Program. Corequisite: EMS 2500 or taken concurrently with instructor permission. 6 lecture hours per week.

ENGLISH (ENGL)

ENGL 0410 Spelling Improvement 1.00 CR
For all students who want to improve their spelling. Teaches spelling from the Tactile-Kinesthetic approach; also, several basic rules and learning styles are examined. 1 lecture hour per week.

ENGL 0470 Basic Reading 3.00 CR
This course is 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. Students completing this course are strongly advised to enroll in English 1470, Critical Reading, 4 lecture hours per week.

ENGL 0990 Beginning Writing 3.00 CR
For students whose test entrance exam score is 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. Students with entrance scores of 15 or lower will be required to enroll in an English lab (ENGL 0995). Prerequisite: Entrance exam of 18 or lower. 3 lecture hours per week.

ENGL 0995 Beg Writing Lab 1.00 CR
A lab course, focused on grammar and punctuation, to be taken concurrently with ENGL 0990. Required for students with an entrance exam score in English of 15 or lower and encouraged for other ENGL 0990 students. Additional text required. Lab fee required. 2 lab hours per week.

ENGL 1001 First-Yr Seminar-English/Hum 1.00 CR
This course is designed to help freshmen majoring in English or some other humanities discipline, including English education, literary studies, professional/technical writing, foreign language, and philosophy. The class will also help undecided humanities majors choose a field of study. This 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. 2 hours per week.

ENGL 1010 Intro to Writing *EN 3.00 CR
Required of all students. The objective of this course is to improve students’ abilities to read, analyze, and write expository papers. Satisfies one of the composition requirements for AA/AS/AAS degrees. 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. Prerequisite: LIB 1010 (can be taken concurrently); English placement score of 19 (ACT writing score or equivalent) or a grade of C or better in ENGL 0990 (and 0991 if taken); and reading placement score of 17 (ACT reading score or equivalent) or a grade of C or better in ENGL 1470. 3 lecture hours per week.

ENGL 1410 Elements of Grammar 3.00 CR
Required of English majors and recommended for other students interested in improving their knowledge of basic English grammar. This course engages students in the study of English grammar to facilitate writing, editing, and an understanding of the relationship between language, formal rules, and meaning. The course will focus 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 outline. 3 lecture hours per week.

ENGL 1470 Critical Reading 3.00 CR
For all students wanting to improve their reading skills and further enhance their opportunities for success in college. This course is strongly recommended for students planning to transfer to a four-year institution and seek higher degrees. The main focus of instruction will be on 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: Placement score of over 12, or must have successfully completed ENGL 0470. 4 lecture hours per week.

ENGL 1520 Speed Reading 2.00 CR
For any students wishing to increase their reading speed while maintaining high levels of comprehension on a wide range of materials. This class teaches the mechanics of speed reading and strategies for improving comprehension with an emphasis on speed-study techniques. Speed reading is a lecture/lab course with both group and independent activities required. Upon completion of the course, successful students will experience at least a 50% increase in their reading speed with 70% or better comprehension. Prerequisite: ENGL 0470, a placement score of 12 or higher, or a successful challenge test given through the Testing Center. 3 lecture hours per week.

ENGL 1800 English Work Experience 1.00 - 3.00 CR
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. Fall section.

ENGL 1810 English Work Experience 1.00 - 3.00 CR
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. Spring section.
Course Descriptions

ENGL 1820  English Work Experience  1.00 - 3.00 CR
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. Summer section.

ENGL 2010  Intro Wrtg: Selected Topics *EN  3.00 CR
Required of all students with an interest in improving their abilities to analyze and write academic papers, including the research-supported essay. Completes the composition requirement for AA/AS degrees. Provides opportunities to write and revise a number of essays. Activities, portfolios, library research, and tests may also 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. Prerequisite: C or higher in English 1010 and LIB 1010 (can be concurrently enrolled). 3 lecture hours per week.

ENGL 2100  Technical Writing  3.00 CR
For students in the science and technical disciplines who would like to increase their proficiency in writing. This course 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 with a grade of C or higher. 3 lecture hours per week.

ENGL 2130  Intro to SciFi & Futurism *HU  3.00 CR
For students in all disciplines with an interest in the literature of science fiction and futurism. This course fulfills a literature requirement in the general education humanities section. Sharpens students’ literacy 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. 3 lecture hours per week.

ENGL 2140  Creative Writing  3.00 CR
For students in all disciplines with an interest in developing expressive skills through the writing of poetry, short stories, and dramatic presentations on stage and in film. Increases students’ understanding of literature, other people, and their own ideas and feelings. Uses class discussions, guest lecturers, and an optional writing lab. 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. 3 lecture hours per week.

ENGL 2200  Intro to Literature *HU  3.00 CR
For students in all disciplines who would like to increase their enjoyment of literature. This course fulfills a literature requirement in the general education section. The course provides students with a basic understanding of novels, short stories, poems, plays, and essays. Students will learn to read analytically and write critically. 3 lecture hours per week.

ENGL 2230  Intro to Mythology *HU  3.00 CR
For students in all disciplines with an interest in the myths of the Greeks, Romans, Vikings, and Celts. This course fulfills a literature requirement in the general education humanities section. The course provides students with 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. Includes lectures, class discussions, and films. 3 lecture hours per week.

ENGL 2270  Intro/World Literature I *HU  3.00 CR
Appropriate for students in all disciplines with an interest in improving their enjoyment of world literature. This course fulfills a literature requirement in the general education section. The course will introduce students to representative masterpieces from ancient, medieval, and Renaissance literature. Students will survey a variety of literature, from writers such as Homer, Sophocles, Virgil, Li Po, Dante, Machiavelli and Shakespeare as well as selections from literary masterpieces such as Gilgamesh, the Bible, the Bhagavad-Gita, the Koran, and The Thousand and One Nights. The course will engage 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. 3 lecture hours per week.

ENGL 2280  Intro/World Literature II *HU  3.00 CR
Appropriate for students in all disciplines with an interest in improving their enjoyment of world literature. This course fulfills a literature requirement in the general education section. The course will introduce students to representative masterpieces from the eighteenth century to the present. Students will survey a variety of literature from writers around the globe. The course will engage 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. 3 lecture hours per week.

ENGL 2290  Critical Intro to Lit *HU  3.00 CR
For students in all disciplines who would like to increase their enjoyment of literature. This course will engage 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. 3 lecture hours per week.

ENGL 2330  Children’s Literature *HU  3.00 CR
For all 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 genre 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 personal card file of all books and stories read, in addition to tests, quizzes, and papers on the text book readings. Satisfies general education literature requirement in the humanities section as well as program requirements in some elementary education programs. 3 lecture hours per week.

ENGL 2400  Intro to American Lit I *HU  3.00 CR
(Colonial Period to the American Renaissance) This course will introduce students to some of the major writers and works in American literature. 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. The course will introduce students to 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. 3 lecture hours per week.

ENGL 2410  Intro to American Lit II *HU  3.00 CR
(Civil War to the Present) This course will introduce students to some of the major writers and works in American literature. 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. The course will engage 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. 3 lecture hours per week.

ENGL 2500  Intro to British Lit I *HU  3.00 CR
(Anglo-Saxon to the 18th Century) 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. The course will engage 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. 3 lecture hours per week.

ENGL 2510  Intro to British Lit II *HU  3.00 CR
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. The course will engage 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. 3 lecture hours per week.

ENGL 2600  Critical Intro to Lit *HU  3.00 CR
For students in all disciplines, but required for English majors who want a bachelor’s degree from a Utah school. Introduces literary appreciation. Teaches criticism and terminology as applied to various types of literature, including fiction, poetry,
ENGL 2790 Writing Center Tutoring 2.00 CR
For all students interested in learning how to tutor writing for either personal satisfaction or professional needs. Required for tutors in the College’s Writing Center. This course will cover a variety of writing specific topics such as grammar, organization, rhetorical invention, revision strategies, and the writing process in general. It will also cover 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. Students who complete the course will be able to diagnose writing problems, provide instruction, and interpret course assignments. 2 lecture hours per week.

ENGL 2791 Writing Center Tutoring 1.00 CR
A second course for all students interested in learning how to tutor writing for either personal satisfaction or professional needs. Required for tutors in the College’s writing center. This course will cover a variety of writing specific topics like grammar, organization, rhetorical invention, revision strategies, and the writing process in general. It will also cover principles of tutoring like, 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. Students who complete the course will be able to diagnose writing problems, provide instruction and practice, and interpret course assignments. 1 lecture hour per week.

ENGL 2890 Spec Proj/The Southern Quill 1.00 - 3.00 CR
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 (see instructor for day and time) and produce works in the genre(s) of their choice. Available for one, two, or three credits. Prerequisite: Instructor Permission.

ENGL 2990 Seminar in English 0.50 - 3.00 CR
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 elective and does not fulfill general education or program requirements. Prerequisite: Instructor permission.

ENGL 3010 Writing in the Professions 3.00 CR
This course is for students who have been accepted into a baccalaureate program at Dixie State College of Utah. If enrollments permit, students who need business writing for transfer purposes and other interested students may also register for English 3010. Learning from business communication theory and through practical application, students will be able to effectively recognize and model diverse professional writing styles by analyzing various business audiences, writing purposes, and documents (including business reports and current research). Students will also learn about matters of business ethics, international business, and the Internet’s impact on business communication. Prerequisite: ENGL 2010 and acceptance into baccalaureate program or departmental consent. 3 lecture hours per week.

ENGL 3030 Advanced College Writing 3.00 CR
This is an upper division composition course intended for English majors and for students who wish to expand and deepen their skills in critical reading, critical thinking and integrated analysis within a variety of rhetorical contexts. The students will be asked to write several persuasive, argumentative and expository essays. Learning from 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: English 2010 (with an earned grade of C or better). 3 lecture hours per week.

ENGL 3120 Document Design 3.00 CR
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. Students will also examine existing research on how different readers process information in different ways. In order to apply the knowledge learned in class, students will write their own technical documents, for both print and online contexts. Prerequisite: ENGL 2010 with a grade of C or better. 3 lecture hours per week.

ENGL 3130 Grant and Proposal Writing 3.00 CR
Required of English majors emphasizing Professional and Technical Writing, and open to students who want to learn about grant and proposal writing. Students in this course will focus 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 in this class will demonstrate their understanding of an effective proposal through their critiques of funded and non-funded proposals and by writing a proposal. Prerequisite: ENGL 2010 with a grade of C or better. 3 lecture hours per week.

ENGL 3180 Writing for Interactive Media 3.00 CR
Required of English majors pursuing an emphasis on Professional & Technical Writing, and open to other interested students. Explores writing and editing for visual, audio, and interactive media—how to choose appropriate format and delivery mechanisms for news, Web sites, kiosks, and CD/DVD, etc. Topics include accessibility, copyright law and information ethics. Students will understand differences in writing for linear and non-linear media; develop an audience-focused, communication-oriented approach to writing; and create text-based documents that communicate effectively across different media. Prerequisite: ENGL 2010 with a grade of C or better. 3 lecture hours per week.

ENGL 3201 Genre Studies: Folklore 3.00 CR
Required of all English majors pursuing the Literary Studies emphasis, and for other interested students. Provides students with an understanding of folklore as a genre, as well as folk themes and motifs in other forms of literature. Toward that aim, the course focuses on folklore in novels and stories and on folk narratives themselves. Designed to introduce students to methods and practices of folklore field research and folklore criticism. The course is also designed to expand the student’s critical reading and writing skills. Prerequisite: ENGL 2010 with a grade of C or better. 3 lecture hours per week.

ENGL 3202 Genre Studies: Poetry 3.00 CR
Required of all English majors pursuing the Literary Studies emphasis, and for other interested students. This course covers the rudiments of poetic expression—including word choice, syntax, figuration, rhythm and meter, lineation, sound, imagery, and form—as it engages students with representative examples of poetry from the western and world traditions. Through close readings and analysis, students learn to appreciate the artistic value of language and to produce competent and convincing interpretations of poetry. The course also covers various theoretical and critical perspectives as they influence the reading of poetry. Prerequisite: ENGL 2010 with a grade of C or higher. 3 lecture hours per week.

ENGL 3203 Genre Studies: Novels 3.00 CR
Required of all English majors pursuing an emphasis in Literary Studies, and recommended for others interested in literature. Students will explore in depth aspects of the novel, such as plot, theme, character, setting, etc. Novels will be selected according to time, place, period, or theme. Students will be introduced to research and criticism as well as to the texts themselves. The course is also designed to expand the student’s critical reading and writing skills. Students will write several critical assignments and conduct a major research project. Prerequisite: ENGL 2010 with a grade of C or better. 3 lecture hours per week.

ENGL 3211 Period Studies: Victorian Literature 3.00 CR
Required of all English majors, and for other students interested in improving their enjoyment of British Victorian literature, including the historical and cultural contexts of the period. Students will engage with the work and ideas of major writers...
Course Descriptions

ENGL 3212 Crime Fiction & Film Noir 3.00 CR
For students in all disciplines who wish to learn about the hard boiled school of detective fiction and the influence it has had upon American cinema. This course fulfills a requirement in the English major. The course will introduce students to the themes, motifs and other narrative elements that distinguish the novels of Depression-era crime writers like Dashiel 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. Course includes texts, film screenings, standard lectures, class discussions, writing assignments, and exams. Prerequisite: ENGL 2010 with a grade of C or better. 3 lecture hours per week.

ENGL 3213 Per/Top Studies: Western Am Li 3.00 CR
Required of English majors pursuing an emphasis in Literary Studies, and recommended for others interested in literature. Students will explore significant works of twentieth-century Western American literature. Specific topics and approaches may vary according to instructor expertise. Students will write several critical assignments and conduct a major research project. Prerequisite: ENGL 2010 with a grade of C or better. 3 lecture hours per week.

ENGL 3220 Multi-Ethnic Am Literature 3.00 CR
Required of all English majors, and for other interested students. The course examines multi-ethnic literature by American authors and studies the contributions to American literature by African-Americans, Asian-Americans, Latinos and Native Americans. It 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 with a grade of C or better. 3 lecture hours per week.

ENGL 3230 Literature and Culture 3.00 CR
Required of English majors pursuing an emphasis in Literary Studies, and recommended for other students curious about the relationship between the literary arts and other cultural forms. This is an interdisciplinary course that will introduce 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 (with a grade of C or better). 3 lecture hours per week.

ENGL 3260 Major American Authors 3.00 CR
Required of English majors pursuing an emphasis in Literary Studies, and recommended for others interested in literature. Students will explore in depth the work of a major writer or group of writers. Topics and time periods vary among American authors according to instructor expertise and might include, for example, Jefferson, Douglass, Melville, Dickens, Cather, Hemingway, Silko, or Morrison, among others. The course will emphasize 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. Students will write several critical assignments and conduct a major research project. Prerequisite: ENGL 2010 with a grade of C or higher. 3 lecture hours per week.

ENGL 3261 Maj Author: Maj Am Women Author 3.00 CR
Required of English majors pursuing an emphasis in Literary Studies, and recommended for others interested in literature. Students will explore in depth the work of a major woman writer or group of women writers. Topics and time periods may vary according to instructor expertise. The course will emphasize 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. Students will write several critical assignments and conduct a major research project. Prerequisite: ENGL 2010 with a grade of C or better. 3 lecture hours per week.

ENGL 3262 Major Authors: Maj African Am 3.00 CR
Required of English majors pursuing an emphasis in Literary Studies, and recommended for others interested in literature. Students will explore in depth 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. The course will emphasize 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. Students will write several critical assignments and conduct a major research project. Prerequisite: ENGL 2010 with a grade of C or better. 3 lecture hours per week.

ENGL 3271 Maj British Authors: Milton 3.00 CR
Required of English majors pursuing an emphasis in Literary Studies, and recommended for others interested in literature. Students will explore in depth the works of John Milton. Particular works may vary according to instructor expertise. The course will emphasize the dynamic interplay among the aesthetics of the text(s), the author's life, and the socio-political context in which the works were produced. Students will be expected to read extensive amounts of work. Students will write several critical assignments and conduct a major research project. Prerequisite: ENGL 2010 with a grade of C or better. 3 lecture hours per week.

ENGL 3281 Maj World Authors: Postcolonial 3.00 CR
Required of English majors pursuing an emphasis in Literary Studies, and recommended for others interested in literature. Students will explore in depth the works of postcolonial writers. Particular works may vary according to instructor expertise. The course will emphasize 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. Students will write several critical assignments and conduct a major research project. Prerequisite: ENGL 2010 with grade of C or better. 3 lecture hours per week.

ENGL 3340 Rhetoric of Science 3.00 CR
Required of English majors pursuing an emphasis in Professional & Technical Writing, and open to students interested in examining rhetoric within the professional sciences. This course focuses on rhetorical principles that influence writing in scientific professions. Students will study the writings of influential scientists-rhetoricians. Successful students in this course will demonstrate through theory and application an understanding of these principles through theses types of scientific writing: environmental impact statements, the scientific report, and articles from contemporary scientific journals. Students also will examine current controversies in scientific debate. Prerequisite: ENGL 2010 with a grade of C or better. 3 lecture hours per week.

ENGL 3350 Writing/Professional Contexts 3.00 CR
Required of English majors pursuing an emphasis in Professional & Technical Writing, and open to students interested in examining writing in complex corporate contexts. Introduces students to the study of written communication in complex human organizations. Course relates written communication to values, leadership and power in such organizational contexts as media, business, professional, social, educational, and political groups. Successful students 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 with a grade of C or better. 3 lecture hours per week.

ENGL 3360 Writing/Magazine/Trade Jrnls 3.00 CR
Required of English majors pursuing an emphasis in Professional and Technical Writing, and open to students interested in this type of writing. Students who complete this course 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 with a grade of C or better. 3 lecture hours per week.
ENGL 3510 Shakespeare 3.00 CR
Required of all English majors pursuing the Literary Studies emphasis, and for 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 that reflect their new knowledge. Additional class evaluation will come through tests. Prerequisite: ENGL 2010 with a grade of C or better. 3 lecture hours per week.

ENGL 3520 Young Adult Literature 3.00 CR
Required of English majors pursuing secondary certification, and recommended for others interested in literature. Students will explore in depth contemporary adolescent literature, including content, structure, diversity issues, and critical evaluation. The course is also designed to provide strategies for teaching young adult readers. Prerequisite: ENGL 2010 with a grade of C or better. 3 lecture hours per week.

ENGL 3600 Literary Theory 3.00 CR
Required of English majors pursuing an emphasis in Literary Studies. The course 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 (with a grade of C or better) and ENGL 2600. 3 lecture hours per week.

ENGL 3720 Editing 3.00 CR
Required of English majors pursuing an emphasis in Professional and Technical Writing, and open to students interested in editing. 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 with a grade of C or better. 3 lecture hours per week.

ENGL 3810 Hist/Structure/English Lang 3.00 CR
Required of English majors and recommended for other students interested in the ways English has developed over time. This course will explore the origins and evolution of the English language by focusing on social, political, and linguistic developments over time. The course will follow these developments through the Old, Middle and Early Modern periods and into the present. Prerequisite: ENGL 2010 (with a grade of C or better). 3 lecture hours per week.

ENGL 4100 Senior Portfolio 3.00 CR
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. 3 lecture hours per week.

ENGL 4500 Methods of Teaching Writing 3.00 CR
Required of English majors pursuing secondary certification, and recommended for others interested in teaching writing to young adult learners. Students will learn how to design and assess writing assignments. They will also explore different pedagogical strategies and theoretical concepts about writing instruction. 3 lecture hours per week.

ENGL 4510 Methods of Teaching Literature 3.00 CR
Required of English majors pursuing secondary certification, 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: English 2010 with a grade of C or better. 3 lecture hours per week.

ENGL 4890 English Internship 1.00 - 3.00 CR
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 terms 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. Prerequisite: Junior or Senior standing and permission from English department chair and faculty advisor. (Note: May be repeated for up to 6 credits.)

ENGL 4900 Senior Capstone 3.00 CR
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. 3 lecture hours per week.

ENGINEERING (ENGR)

ENGR 1000 Intro to Engineering 2.00 CR
This course is designed for the student who is considering an engineering career. Introduces the students to the various fields of engineering and the nature and challenges of the engineering profession. The educational requirements of various fields will be explored. History, ethics, engineering method will also be discussed. Some computer software used by engineers will be introduced. Course includes lecture from both the instructor and guest lecturers, assignments, quizzes, and tests. Successful completion of the course should enable the student to know more about engineering and the functions and career paths for various branches of engineering. 2 lecture hours per week.

ENGR 1800 Engineering Work Experience 1.00 - 3.00 CR
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. Fall section.

ENGR 1810 Engineering Work Experience 1.00 - 3.00 CR
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. Spring section.

ENGR 1820 Engineering Work Experience 1.00 - 3.00 CR
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.
ENGR 2010 Statics 3.00 CR
This course is designed for the second year engineering student. Deals with the equilibrium of bodies, that is, those that are either at rest or move with a constant velocity. This includes properties of vectors as they apply to force systems, including trusses, frames and machines. Applications of friction, forces in beams and cables will be discussed. Course includes lecture, homework assignments, quizzes, and tests. Successful completion of the course should ensure students can continue into Dynamics. Prerequisites: MATH 1210 and concurrent enrollment in MATH 1220. 3 lecture hours per week.

ENGR 2030 Dynamics 3.00 CR
This course is designed for the second year engineering student. This class deals with the kinematics of a particle both rectilinear and curvilinear motion. Kinetics of a particle including force and acceleration and Newton’s laws of motion will be discussed. Planar kinematics and kinetics of a rigid body will be covered. Course includes lecture, assignments, quizzes, and tests. Successful completion of the course should give students the ability to continue with engineering classes at a four-year institution. Prerequisite: ENGR 2010. 3 lecture hours per week.

ENGR 2140 Strength of Materials 3.00 CR
This course is designed for the second-year engineering student. 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. 3 lecture hours per week.

ENGR 2250 Electrical Circuits 3.00 CR
An introductory course designed for students in pre-engineering which presents the basic concepts of electric circuit theory. Curriculum concepts focus on circuit theory and include voltage, current, power, resistance, capacitance and inductance. Circuit analysis techniques are taught that include Kirchhoff’s Laws, node voltages, and mesh currents for direct and alternating current. Circuits discussed include first and second order inductive and capacitive, phasers, operational amplifiers, and timing. Prerequisite: MATH 1220 and concurrent enrollment in MATH 2280. 3 lecture hours per week.

ENGR 2255 Electrical Circuits Lab 1.00 CR
An introductory laboratory course for students in pre-engineering that discusses electrical circuit measurements and analysis methods. Several laboratories will introduce the student 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. Basic circuit design and analysis techniques will be presented using PSPICE software. Prerequisite: MATH 1220. 2 lab hours per week.

ENGR 2300 Engineering Thermodynamics 3.00 CR
Fundamentals of thermal energy and work; thermodynamic properties of fluids and equations of state; open and closed systems; first and second laws of thermodynamics; applications to thermal and mechanical processes. Prerequisites: MATH 1220 and concurrent enrollment in MATH 2210. 3 lecture hours per week.

ENGR 2990 Seminar in Engineering 0.50 - 3.00 CR
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.

ENGLISH SPEAKERS OF OTHER LANGUAGES (ESOL)

ESOL 0100 Intro/Listening & Conversation 3.00 CR
This course is 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 the workplace. It will introduce students to workplace skills like how to obtain employment, maintain employment, pursue career advancement, and use applied technology at the introductory level. 1 lecture hour per week.

ESOL 0110 ESOL Skills: Intro/Workplace 1.00 CR
This course is 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 the workplace. The course will also introduce students to workplace skills like how to obtain employment, maintain employment, pursue career advancement, and use applied technology at the introductory level. 1 lecture hour per week.

ESOL 0120 ESOL Skills: Intro/Academics 1.00 CR
This course is 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 the workplace. It will introduce students to workplace skills like how to obtain employment, maintain employment, pursue career advancement, and use applied technology at the introductory level. 1 lecture hour per week.

ESOL 0130 ESOL Skills: Life 1.00 CR
This course is 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 the workplace. The course will also introduce students to workplace skills like how to obtain employment, maintain employment, pursue career advancement, and use applied technology at the introductory level. 1 lecture hour per week.

ESOL 0140 ESOL: Intro to Reading 4.00 CR
This course is 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 the workplace. The course will also introduce students to workplace skills like how to obtain employment, maintain employment, pursue career advancement, and use applied technology at the introductory level. 3 lecture and 2 lab hours per week.

ESOL 0150 ESOL: Intro to Writing 3.00 CR
This course is 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 the workplace. The course will also introduce students to workplace skills like how to obtain employment, maintain employment, pursue career advancement, and use applied technology at the introductory level. 3 lecture and 2 lab hours per week.

ESOL 0160 ESOL: Intro to Grammar 2.00 CR
This course is 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 the workplace. The course will also introduce students to workplace skills like how to obtain employment, maintain employment, pursue career advancement, and use applied technology at the introductory level. 2 lecture hours per week.

ESOL 0200 Basic Listening/Conversation 3.00 CR
This course is designed for students whose native language is other than English. It introduces concepts of pronunciation, intonation, stress, and English phonics. Explores uses of simple statements, questions, and commands. It will introduce students to short academic lectures, note taking, and vocabulary development. Students will practice listening and speaking with other students, the instructor, and interactive software and recording equipment. Prerequisite: TOEFL placement score of 133-146. 2 lecture and 2 lab hours per week.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESOL 0210</td>
<td>Basic ESOL Skills: Workplace</td>
<td>1.00 CR</td>
<td>This course is designed to help ESOL students learn and practice workplace skills like how to obtain employment, maintain employment, pursue career advancement, and use applied technology at the basic level. Prerequisite: TOEFL placement score of 133-146. 1 lecture hour per week.</td>
</tr>
<tr>
<td>ESOL 0220</td>
<td>Basic ESOL Skills: Academic</td>
<td>1.00 CR</td>
<td>This course is designed to help ESOL students develop basic academic skills like notetaking, listening to lectures and oral instructions, interpreting written instructions, test taking, dictionary skills, seeking help from tutors and instructors, using the library, and other appropriate academic skills as needed. Prerequisite: TOEFL placement score of 133-146. 1 lecture hour per week.</td>
</tr>
<tr>
<td>ESOL 0230</td>
<td>BASIC ESOL Skills: Life</td>
<td>1.00 CR</td>
<td>This course is designed to help ESOL students develop life skills they may need to actively participate in United States culture while they are attending college. Topics may include, but are not limited to, the following: interpersonal communication, telephone communication, time and money, health and nutrition, safety and security, consumer education, government and community, and transportation and travel. Prerequisite: TOEFL placement score of 133-146. 1 lecture hour per week.</td>
</tr>
<tr>
<td>ESOL 0300</td>
<td>Basic Reading</td>
<td>4.00 CR</td>
<td>This course is designed to give students the opportunity to develop reading skills in English. Students will study beginning vocabulary, work attack skills, dictionary skills, and comprehension skills. Students will read works which are academic and non-academic in nature and develop strategies for approaching different types of reading. Prerequisite: TOEFL placement score of 133-146. 3 lecture and 2 lab hours per week.</td>
</tr>
<tr>
<td>ESOL 0350</td>
<td>Basic Writing</td>
<td>3.00 CR</td>
<td>This course is designed to help ESOL students gain generic skills in writing English. It will help students develop coherency and fluency in writing by focusing on short writing assignments, responses to readings, vocabulary development, style and development, and technical accuracy. Prerequisite: TOEFL placement score of 133-146. 3 lecture hours per week.</td>
</tr>
<tr>
<td>ESOL 0360</td>
<td>Basic Grammar</td>
<td>2.00 CR</td>
<td>This course is 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: TOEFL placement score of 133-146. 2 lecture hours per week.</td>
</tr>
<tr>
<td>ESOL 0400</td>
<td>Intern Listening/Conversation</td>
<td>3.00 CR</td>
<td>This course is designed to help ESOL students further develop listening and conversation skills. This course will expand on the use of simple statements, questions, and commands on familiar topics as well as academic lectures and conversations. Students will listen to short lectures, take notes, and discuss. Students will work with the instructor, small groups, or with technology to practice the skills presented in this course. Prerequisite: TOEFL placement score of 147-159. 2 lecture and 2 lab hours per week.</td>
</tr>
<tr>
<td>ESOL 0410</td>
<td>Intern ESOL Skills: Workplace</td>
<td>1.00 CR</td>
<td>This course is designed to help ESOL students further develop and practice workplace skills like how to obtain employment, maintain employment, pursue career advancement, and use applied technology at an intermediate level. Prerequisite: TOEFL placement score of 147-159. 1 lecture hour per week.</td>
</tr>
<tr>
<td>ESOL 0420</td>
<td>Intern ESOL Skills: Academic</td>
<td>1.00 CR</td>
<td>This course is designed to help ESOL students further develop academic skills like notetaking, listening to lectures and oral instructions, interpreting written instructions, test taking, dictionary skills, seeking help from tutors and instructors, using the library, and other appropriate academic skills as needed. Prerequisite: TOEFL placement score of 147-159. 1 lecture hour per week.</td>
</tr>
<tr>
<td>ESOL 0430</td>
<td>Intern ESOL Skills: Life</td>
<td>1.00 CR</td>
<td>This course is designed to help ESOL students further develop life skills they may need to actively participate in United States culture while they are attending college. Topics may include, but are not limited to, the following: interpersonal communication, telephone communication, time and money, health and nutrition, safety and security, consumer education, government and community, and transportation and travel. Prerequisite: TOEFL placement score of 147-159. 1 lecture hour per week.</td>
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<tr>
<td>ESOL 0500</td>
<td>Intern Reading</td>
<td>4.00 CR</td>
<td>This course 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. It expands students' vocabularies, improves dictionary skills, and increases 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: TOEFL placement score of 147-159. 3 lecture and 2 lab hours per week.</td>
</tr>
<tr>
<td>ESOL 0550</td>
<td>Intern Writing</td>
<td>3.00 CR</td>
<td>This course is designed to help ESOL students gain intermediate skills in writing English. This course will focus on writing well-developed short academic 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: TOEFL placement score of 147-159. 3 lecture hours per week.</td>
</tr>
<tr>
<td>ESOL 0560</td>
<td>Intern Grammar</td>
<td>2.00 CR</td>
<td>This course is designed to help ESOL students further develop 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: TOEFL placement score of 147-159. 2 lecture hours per week.</td>
</tr>
<tr>
<td>ESOL 0600</td>
<td>Adv Listening and Conversation</td>
<td>3.00 CR</td>
<td>This course is designed for ESOL students to strengthen and enrich skills in listening and conversation. Students will work on more academic listening skills such as listening for important information, note taking in the lecture setting, and giving and receiving oral instructions. Emphasis is placed on active participation in class and in small group settings designed for conversation practice. Prerequisite: TOEFL placement score of 160-172. 2 lecture and 2 lab hours per week.</td>
</tr>
<tr>
<td>ESOL 0610</td>
<td>Adv ESOL Skills: Workplace</td>
<td>1.00 CR</td>
<td>This course is designed to help ESOL students enrich and strengthen practice workplace skills like how to obtain employment, maintain employment, pursue career advancement, and use applied technology at an intermediate level. Prerequisite: TOEFL placement score of 160-172. 1 lecture hour per week.</td>
</tr>
<tr>
<td>ESOL 0620</td>
<td>Adv ESOL Skills: Academic</td>
<td>1.00 CR</td>
<td>This course is designed to help ESOL students strengthen and enrich academic skills like notetaking, listening to lectures and oral instructions, interpreting written instructions, test taking, research skills, seeking help from tutors and instructors, using the library, and other appropriate academic skills as needed. Prerequisite: TOEFL placement score of 160-172. 1 lecture hour per week.</td>
</tr>
<tr>
<td>ESOL 0630</td>
<td>Adv ESOL Skills: Life</td>
<td>1.00 CR</td>
<td>This course is designed to help ESOL students enrich and strengthen develop life skills they may need to actively participate in United States culture while they are attending college. Topics may include, but are not limited to, the following: interpersonal communication, telephone communication, time and money, health and nutrition, safety and security, consumer education, government and community, and transportation and travel. Prerequisite: TOEFL placement score of 160-172. 1 lecture hour per week.</td>
</tr>
<tr>
<td>ESOL 0700</td>
<td>Adv Reading</td>
<td>4.00 CR</td>
<td>This course is 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, and comprehension skills. Students will also be exposed to study skills strategies related to reading in the academic content areas. Prerequisite: TOEFL placement score of 160-172. 3 lecture and 2 lab hours per week.</td>
</tr>
</tbody>
</table>
| ESOL 0750  | Adv Writing                                     | 3.00 CR | This course is designed to help ESOL students strengthen and enrich skills in writing English. In this course, students will focus on moving beyond the standard aca-
Following is the extracted text from the image:

Course Descriptions

Permission must be obtained from the director of cooperative education before registration. Students may be eligible for academic credit based upon the completion of 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. Fall section.

ESOL 0760 Adv Grammar 2.00 CR
This course is designed to help ESOL students strengthen and enrich skills in English usage, correct speech and writing forms and patterns, more complicated verbs and their related structures, and advanced use of parts of speech. The course will focus on Standard American English usage and conventions. Prerequisite: TOEFL placement score of 160-172. 2 lecture hours per week.

FCS 1500 Human Dev/Lifespan *SS 3.00 CR
This course is required for all entering freshmen, and is recommended for transfer students with 0-24 credits. The course is designed to help student 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. 2 lab hrs per week.

FCS 1240 Fashion Sewing 3.00 CR
This coed course is designed for students and community members with an interest 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 identifiction and selection will be presented. Concepts are taught through lecture, demonstration, and student practice. Students may develop saleable skills useful in earning an income and/or for personal satisfaction or foundation skills for advanced study. Recommended for Family Consumer Science, Fashion Merchandising, Theater, and Interior Design students. Lab required. 2 lecture and 2 lab hours per week.

FCS 1245 Fashion Sewing Lab 0.00 CR
Lab to be taken concurrently with FCS 1240. 2 lab hours per week.

FCS 1370 Intro to Interior Design 3.00 CR
This course is open to all students and community members who have an interest in a well-planned, aesthetic interior environment. It is the introductory course for an interior design emphasis and recommended for fashion and art students as well. The course material includes a survey of basic design principles and elements as they apply to planning, designing and furnishing human environments. Color principles will be studied as well as selection skills for window treatments, wall and floor coverings, furniture and accessories. Concepts will be taught by lecture, guest professionals and through student completion of design projects. Students who complete the course may be able to design and appreciate human environments that contribute to positive human behavior, well-being and aesthetic satisfaction. 3 lecture hours per week.

FCS 1800 FCS Work Experience 1.00 - 3.00 CR
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. Spring section.

FCS 1820 FCS Work Experience 1.00 - 3.00 CR
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. Summer section.

FCS 2240 Intern Fashion Sewing 3.00 CR
This course is designed for students who already have basic sewing skills (use of sewing machine, serger, pressing tools, and other equipment, as well as cutting and sewing skills). Students will learn to apply intermediate level construction techniques, with an emphasis on design and alterations skills. Computer pattern making is available. 2 lecture and 2 lab hours per week.

FCS 2420 Personal Dev/Effective Comm 2.00 CR
This course is open to all students interested in exploring a variety of topics related to personal growth and development as well as communication skills. Participants will be introduced to life skills that will be helpful in understanding their own ways of looking at life and how these affect daily experiences. They will also be introduced to assertive communication principles and styles, conflict resolution, dealing...
Course Descriptions

with anger and other forms of effective communication. Concepts will be presented through lecture, class discussion, experiential exercises, and outside activities. Students completing this class may have a better understanding of themselves and how to communicate effectively in relationships. This course is an elective credit. 2 lecture hours per week.

FCS 2430 Balancing Stress 1.00 CR
This course is for all students and community members interested in learning the theory and skills to maximize and to manage our life stressors. In modern age stress affects all of us in many different areas, social, mental, physical, emotional and spiritual. This class explores the impact of stress on all individuals and their relationships in all of these varied areas and how we cope. The emphasis will be on the art of turning adversity into adventure. Students completing this course will be able to distinguish between stressors and stress and to compile an arsenal of stress management coping skills. This course is an elective credit. 1 lecture hour per week.

FCS 2440 Strengthening Relationships 0.50 CR
This class is based on the work of C. Terry Warner, Ph.D., and follows the training format developed by the Arbinger Company of Salt Lake City. The purpose of this class is to provide a format for participants to strengthen relationships and resolve conflicts in families and in the workplace. We will explore how we can be an influence for good without control, coercion, or manipulation. Rather than teaching techniques, this class will assist participants to discover and to recover who we really are -- our authentic selves. 2 lecture hours per week for 5 weeks.

FCS 2500 Child Dev - Birth to Eight 3.00 CR
Child Development: Birth to Eight, focuses on the physical, cognitive, and psycho-social development of young children through infancy, toddlerhood, and early childhood. This course uses 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. This class is for early childhood educators, preschool teachers, and day care providers in centers and homes. It fills requirements for CDA, and transfers as an elective credit to several Utah colleges. Students should check with an advisor to get specific information on transfer. 3 lecture hours per week.

FCS 2600 Intro to Early Childhood Educ 2.00 CR
This is an introductory course for preschool educators, though it is open to any student. Historical background, professional issues, theories, and an overview to developmentally appropriate educational practices will be covered. It can be used for completion of coursework toward CDA or can be used as a preparatory course for those who plan to work in childcare. 2 lecture hours per week.

FCS 2610 Child Guid Based on Dev Theory 3.00 CR
The Guidance course is part of the Associate Degrees in Early Childhood Education. The course uses DSC Preschool as a lab setting to apply principles of child guidance and discipline from currently accepted theories. Guidance is an interactive lecture course which uses varied strategies to study principles and concepts. Students completing Child Guidance will be ready to move on to the next courses in the Associate Degrees in Early Childhood Education. They also will find that this course transfers to all institutions of higher education in Utah. This course is also very valuable to parents, prospective parents, and educators. Prerequisites: FCS 1500 or FCS 2500, or PSY 1100 (can be concurrently enrolled in any of the prerequisite courses). 2 lecture hours and 2 lab hours per week.

FCS 2620 Plan Creative Exp Young Child 3.00 CR
This course is part of the Associate Degrees requirements for Early Childhood Education. This course explores the value of developmentally appropriate play for young children and how to provide a rich curricular environment for early childhood settings. It includes planning, preparation, and implementation of activities for early childhood education. This course transfers to several other institutions; students should seek advisement at the receiving institution to guarantee transfer. A lab is embedded in the course to provide students an opportunity to apply course concepts with children. Prerequisites: FCS 1500 or FCS 2500 or PSY 1100 (can be concurrently enrolled in any of the prerequisite courses). 2 lecture hours and 2 lab hours per week.

FCS 2640 Partnering With Parents 3.00 CR
Partnering with Parents is a course designed to prepare educators to competently structure the vital collaboration between educational agencies and the home. It will highlight the fact that school and the home are intertwined in the support of healthy childhood development. The course will focus on the development of attitudes, knowledge and skills that educators bring to strengthen school and home relationships. Prerequisite: FCS 1500, 2500 or PSY 1100. 3 lecture hours per week.

FCS 2700 EI: Fndtns & Proc Safeguards 1.00 CR
In this course, participants gain an overview of early intervention and the theory behind the legislation of Part C of IDEA. Topics include 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. 1 lecture hour per week.

FCS 2701 EI: Fam Prtnrships/Serv Coord 1.00 CR
In this course, participants learn about family partnerships and the duties and responsibilities of the service coordinator. Topics include: understanding the 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; grief and trauma. 1 lecture hour per week.

FCS 2702 EI: Assmnt/Indvl Service Plan 1.00 CR
In this course, participants gain an overview of the assessment process and the development of service planning based on the assessment. Topics include child find and referral; first contacts, tools used in identifying family’s concerns, needs and resources; child development assessment; determination of eligibility; IFSP meetings; development of child and family goals; transition; review and evaluation of the IFSP. 1 lecture hour per week.

FCS 2703 EI: Health and Safety 1.00 CR
In this course participants learn about child care health and safety issues. Topics include: communicable diseases, controlling the spread of disease; nutrition; medication management and promoting infant and toddler emotional well-being; injury prevention; SIDS; shaken baby syndrome; child abuse and neglect; and preventative oral health. 1 lecture hour per week.

FCS 2704 EI: Motor Training 1.00 CR
In this course participants learn about 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; typical diagnostic positioning; equipment, toys, medical services and case studies. 1 lecture hour per week.

FCS 2705 EI: Communication Training 1.00 CR
In this course participants learn to assist early intervention children with their growth of communication skills. Topics include: typical language development; atypical language development; naturalistic instruction techniques; language treatment strategies; and production strategies. 1 lecture hour per week.

FCS 2880 Practicum In Early Childhood 2.00 - 4.00 CR
Designed to provide on-the-job learning opportunities for prospective teachers of young children. The placement will be in an early childhood educational setting and include teaching opportunities in the early childhood setting under the supervision of the program director and/or teacher of a particular classroom. As part of the course, the student will meet weekly with a faculty member in the FCS department in a seminar format to establish learning objectives for the semester specific to student site placement and the student. These objectives will include work in each of the following areas: curriculum development, classroom management, lesson preparation and delivery, working with parents of young children, and supervising workers in an early childhood educational setting. Prerequisite: FCS 1500 or FCS 2500 or PSY 1100, and 2600, 2610, 2620. Various practicum hours per week.

FCS 2990 Sem in Family Cons Sci 0.50 - 3.00 CR
Various seminars in Family & Consumer Science are open to all students and community members. Topics may include child development, finance, nutrition, foods, wellness, interior design/textiles, communication, family relationships and other topics that relate to life skill development and management of home and work. Presentations will vary according to the nature of the class, but may include lecture, class discussions, practical exercises, outside activities, laboratory experiences. Courses may be repeated for elective credit. Lab fees may apply to certain seminars. Consult the class schedule for details.

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**Course Descriptions**

**FINANCE (FIN)**

**FIN 1750  Personal Finance 3.00 CR**
A course for those who spend money or plan to spend money. Students with a finance, business or family concentration may be particularly interested. 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 are introduced. Concepts are presented through lecture, class and group discussion, media presentations, guest speakers and experiential exercises, including the development of a personal budget, following a stock, and a group exploration presentation. Completers should be capable of making informed decisions relating to personal finance and consumer issues. This is an elective course. 3 lecture hours per week.

**FIN 3150  Managerial Finance I 3.00 CR**
Teaches fundamentals necessary to analyze financial statements, identify management problems, determine causes, and make sound decisions. Covers cash flow, vertical, horizontal, and ratio analyses, break even, and profit volume. Discusses tools of financial management, operating leverage, and projections. Requires a written financial analysis paper. Prerequisites: ACCT 2020, ECON 2020, STAT 2040 and advanced standing in the business baccalaureate program. 3 lecture hours per week.

**FIN 3200  Money, Banking and Credit 3.00 CR**
A basic course, including consideration of monetary standards, organization and functioning of the credit system and the Federal Reserve System, problems of money, prices, and credit control. Recent monetary and banking trends are emphasized. Prerequisites: FIN 3150 (can be concurrently enrolled) and advanced standing in the business baccalaureate program. 3 lecture hours per week.

**FIN 3750  Intro to Investments 3.00 CR**
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. Students will learn to follow the markers through the Wall Street Journal and other sources. This is a good course for the novice investor to learn the principles of practical investment management. Prerequisites: FIN 3150 and advanced standing in the business baccalaureate program. 3 lecture hours per week.

**FIN 4150  Managerial Finance II 3.00 CR**
In-depth treatment of capital structure, dividend policy, corporate incentive problems, and implications for organization structure and features of securities, agency theory, and signaling theory. Prerequisites: FIN 3150 and advanced standing in the business baccalaureate program. 3 lecture hours per week.

**FIN 4180  Entrepreneurial Finance 3.00 CR**
Explores all aspects of consumer and commercial credit management with the intent of acquainting the student with the various types and proper uses of credit so that his/her personal and business experiences with credit will be positive ones. Attention will be given to such personal/consumer areas as loans, mortgages, credit cards, etc. Commercial credit topics will include business credit, factoring, financial analysis and reporting agencies, the management of consumer credit by businesses, and credit issuance and collection policies. Completers should be able to properly manage their own personal credit or their business's consumer or commercial credit. Prerequisites: ACCT 2020, ENGL 2010, FIN 3150, and advanced standing in the business baccalaureate program. 3 lecture hours per week.

**FIN 4300  Real Estate Finance 3.00 CR**
Mechanisms of real estate financing, sources of funds and financial institutions, and governmental agencies. The framework for urban real estate investment decisions by individuals and institutions. Use of financing techniques, leverage, risk analysis and control, and taxation. Prerequisites: FIN 3150 and advanced standing in the business baccalaureate program. 3 lecture hours per week.

**FIN 4400  International Finance 3.00 CR**
A study of the international monetary system in its theoretical and institutional setting. The position of an individual business firm in conducting international trade; procedures in financing international transactions. Prerequisites: FIN 3150 and advanced standing in the business baccalaureate program. 3 lecture hours per week.

**FRENCH (FREN)**

**FREN 1010  Beg French I *FL 4.00 CR**
This course is taught fall semester only. For beginning students interested in the French language. 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, along with one other French course, will fulfill the Foreign Language requirement for students to receive an Associate of Arts degree. Successful completers are prepared to take French 1020. 4 lecture hours per week.

**FREN 1020  Beg French II *FL 4.00 CR**
This course is taught spring semester only. For students interested in the French language who have completed French 1010 or who have equivalent experience (approximately two years of high school French). Students using 1020 as an entry level class may receive vertical credit for French 1010 upon passing 1020 with a C grade or higher. Emphasizes developing communicative competence, including speaking, listening, reading, and writing. Varied methods are used to teach the class, including videos and drilling concepts. This course, along with one other French course, will fulfill the Foreign Language requirement for students to receive an Associate of Arts degree. Prerequisite: French 1010 or instructor permission. 4 lecture hours per week.

**FREN 2010  Interim French II *FL 4.00 CR**
This course is taught fall semester only. For intermediate-level students who have taken French 1020, or for students who have had equivalent experience (four or more years of high school French). Students who begin their French studies at the intermediate levels may receive vertical credit for the beginning level classes if they receive a C grade or higher. Continued emphasis on communicative competence. Grammatical structures will be reviewed, conversation will be emphasized, and reading and writing will receive increased focus. A variety of teaching methods are employed, including drills, videos, conversational activities, reading, and lecture. This course, along with one other French course, will fulfill the Foreign Language requirement to receive an Associate of Arts degree. Successful completers are prepared to take French 2040. Prerequisite: French 1020 or instructor permission. 4 lecture hours per week.

**FREN 2020  Interim French II *FL 4.00 CR**
This course is taught spring semester only. For intermediate-level students who have taken French 2010. Students who begin their French studies at the intermediate levels may receive vertical credit for the beginning level classes if they receive a C grade or higher. Continued emphasis on communicative competence. Grammatical structures will be reviewed, conversation will be emphasized, and reading and writing will receive increased focus. A variety of teaching methods are employed, including drills, videos, conversational activities, reading, and lecture. This course, along with one other French course, will fulfill the Foreign Language requirement for students to receive an Associate of Arts degree. Prerequisite: French 2010 or instructor permission. 4 lecture hours per week.

**FREN 2990  Seminar in French 0.50 - 3.00 CR**
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, 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.
Course Descriptions

GRAPHIC COMMUNICATION (GCOM)

GCOM 1010 Intro to Graphic Communication 3.00 CR
Graphic Communications students and other students whose major subject area is associated with the printing industry should take this class. The class is designed to give students theory and 'hands-on' assignments relative to the printing industry. Areas introduced are: history, digital file preparation, digital file output, digital camera, offset press, finishing/binding, and screen printing. The curriculum is based on the PrintED competencies and is accredited by the Graphic Arts Education Research Foundation-Printing Industries of America. An Introduction To Graphic Communications certificate is awarded to students who complete 80% of the competencies. 3 lecture hours per week.

GCOM 1110 Digital File Prep I Adobe InD 3.00 CR
The class is a basic electronic layout course for students majoring in Graphic Communications and other students whose major subject area is associated with the printing industry. The student will use computers (Macintosh), Adobe InDesign software, and laser printers, to merge text, graphics, and data for competency based assignments to produce finished documents for reproduction. This class is one in a group of three (GCOM 1110, GCOM 1120, and GCOM 2130). The curriculum is based on the PrintED competencies and is accredited by the Graphic Arts Education Research Foundation-Printing Industries of America. The student should successfully complete these three classes before attempting job entry. A Digital File Preparation certificate is awarded to students who complete 80% of the class competencies and the Introduction To Graphic Communications (GCOM 1010) class. 3 lecture hours per week.

GCOM 1120 Digital File Prep II Quark Xpr 3.00 CR
The class is a basic layout course for students majoring in Graphic Communication and other students whose major subject area is associated with the printing industry. The student will use computers (Macintosh), Quark Xpress software, and laser printers, to merge text, graphics, and data for competency based assignments to produce finished documents for reproduction. This class is one in a group of three (GCOM 1110, GCOM 1120, and GCOM 2130). The curriculum is based on the PrintED competencies and is accredited by the Graphic Arts Education Research Foundation-Printing Industries of America. The student should successfully complete these three classes before attempting job entry. A Digital File Preparation certificate is awarded to students who complete 80% of the class competencies and the Introduction To Graphic Communications (GCOM 1010) class. 3 lecture hours per week.

GCOM 1220 Digital Photography / Scanning 3.00 CR
The course is designed to give the student ‘hands-on’ experiences with the digital camera and scanner. Nomenclature, basic techniques, Power Point presentations, and care of equipment are covered in the class. Sony 3.3 and 4.1 mega pixel digital cameras will be provided for students who do not have their own. Students will also use Macintosh computers and UMAX scanners for the scanning portion of the class. Although the instruction is geared for the Graphic Communication and other students whose major subject area is associated with the printing industry the content is applicable to all who have a need for skills in this these areas. 3 lecture hours per week.

GCOM 1230 Digital File Output 3.00 CR
The class is for specifically for Graphic Communication students, or others who need to have experiences prelighting documents prior to printing, trapping color, calibrating printers, producing proofs, determining page imposition, and performing computer-to-plate output. The curriculum is based on the PrintED competencies and is accredited by the Graphic Arts Education Research Foundation-Printing Industries of America. A Digital File Output certificate is awarded to students who complete 80% of the class competencies and the Introduction To Graphic Communications (GCOM 1010) class. 3 lecture hours per week.

GCOM 1410 Beginning Offset Press 3.00 CR
This course is designed for Graphic Communications majors and it is strongly recommended for others having a desire to acquire problem-solving skills related to prepess (design and illustration) and offset operations. The course is the first of two classes designed to give the students theory and hands on experience in: digital file output, paper cutting, press nomenclature, press make ready, for single and multi color press operation. Hands on press assignments include single and multi color jobs. The curriculum is based on the PrintED competencies and is accredited by the Graphic Arts Education Research Foundation-Printing Industries of America. The student should successfully complete both press classes before attempting job entry. A Beginning Offset Press certificate is awarded to students who complete 80% of the class competencies and the Introduction To Graphic Communications (GCOM 1010) class. 3 lecture hours per week.

GCOM 1510 Finishing/Binding 3.00 CR
The student will be exposed to finishing and binding tools that have been recommended by industry for job entry. Paper math, paper cutting, padding, stitching, folding, scoring, slitting, and safety are covered in the lecture and lab. The curriculum is based on the PrintED competencies and is accredited by the Graphic Arts Education Research Foundation-Printing Industries of America. A Finishing and Binding certificate is awarded to students who complete 80% of the class competencies and the Introduction To Graphic Communications (GCOM 1010) class. Fee required. 3 lecture hours per week.

GCOM 1610 Screen Printing 3.00 CR
Designed for students wishing to explore the screen printing application. The student will print on various substrates using stencils that have been photographically generated. Computers will be used to reproduce images for positive reproduction using the process camera. Multi-color screen printing on t-shirts will be the emphasis of the class. Students will also assemble a design of text and graphic to be embroidered on apparel. 3 lecture hours per week.

GCOM 1800 Graphic Arts Work Experience 1.00 - 3.00 CR
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. Fall section.

GCOM 1810 Graphic Arts Work Experience 1.00 - 3.00 CR
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. Spring section.

GCOM 1820 Graphic Arts Work Experience 3.00 CR
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. Summer section.

GCOM 2130 Computer Ad Layout and Design 3.00 CR
Students who have completed InDesign, QuarkXPress, Illustrator, or Photoshop should enroll to produce single and multi-colored ads. Successful completers of all three classes can apply for employment at print shops, newspaper and ad agencies. Prerequisites: GCOM 1110 or GCOM 1120 or VT 2500 or VT 2600. 3 lecture hours per week.

GCOM 2420 Adv Offset Press 3.00 CR
Graphic Communication students will have ‘hands-on’ assignments with digital file output, single and multi color, process printing, press adjustments, and problem solving related to all aspects of offset printing. Job entry as a duplicator operator should be possible for all successful completers of the offset press series. The curriculum is based on the PrintED competencies and is accredited by the Graphic Arts Education Research Foundation-Printing Industries of America. An Advanced Offset Press certificate is awarded to students who complete 80% of the class com-

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### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 1010</td>
<td>Introduction to Geology *PS</td>
<td>3.00 CR</td>
<td>A general survey of physical Geology for non-science majors, stressing an appreciation for our scenic landscapes and the study of their origins. Course uses lectures, labs, slides, and videos to help the students gain an understanding of the geology around them. Successful completion of this course will enable the student to better appreciate the landforms of the earth. One field trip required. Lab fee required (transportation). 3 lecture hours per week.</td>
</tr>
<tr>
<td>GEO 1020</td>
<td>Life of the Past *PS</td>
<td>3.00 CR</td>
<td>A general survey of historical Geology for non-science majors. This course examines the basic principles of historical geology including the relationship between the tectonic history of the earth and the evolution of life through time. This course will use lectures, labs, slides, and videos to help the students gain an understanding of the history of the earth. Successful completion of this course will enable the student to appreciate how our earth formed. Lab fee required (transportation). 3 lecture hours per week and one field trip required.</td>
</tr>
<tr>
<td>GEO 1040</td>
<td>Intro to Dinosaurs *PS</td>
<td>3.00 CR</td>
<td>An introductory science course that utilizes dinosaurs, a popular subject matter, as an avenue to teach students basic principles of biology, physics, chemistry, and astronomy, with some basic math (algebra and trigonometry). This course meets the criteria expected of an introductory science class and fulfills a core curriculum requirement. Successful completion of this course will enable a student to understand science and scientific concepts and their applications in a multitude of disciplines. 3 lecture hours per week.</td>
</tr>
<tr>
<td>GEO 1050</td>
<td>Geol of the Nat’l Parks *PS</td>
<td>3.00 CR</td>
<td>This course investigates the geologic history of the southwest with an emphasis given to the geology of the national parks of the region. This course will use lectures, field trips, slides, and videos to help the students gain an understanding of the history of the national parks. Successful completion of this course will enable the student to better understand how our national parks came to be. There will be numerous required field trips to the surrounding areas. 3 lecture hours per week.</td>
</tr>
<tr>
<td>GEO 1055</td>
<td>Geo/Nat’l Parks/FIELD TRIP LAB</td>
<td>1.00 CR</td>
<td>Two separate weekend field trips to selected national parks allowing students to observe geologic features and processes, and to gain hands-on practice in rock identification. Requires camping and some hiking. Must be taken concurrently with GEO 1050: Geology of the National Parks. Fee required.</td>
</tr>
<tr>
<td>GEO 1060</td>
<td>Environmental Geology *PS</td>
<td>3.00 CR</td>
<td>An introductory course for non-science majors. This course emphasizes the relationship between human beings and the geologic environment, including geologic hazards, mineral and energy resources, and environmental issues. Successful completion will give students an understanding of the causes and impact of environmental threats. 3 lecture hours per week.</td>
</tr>
<tr>
<td>GEO 1080</td>
<td>Intro to Oceanography *PS</td>
<td>3.00 CR</td>
<td>This course is intended to convey the essential principles of ocean science. Students completing this course should have an understanding of the earth’s oceans including sea floor topography and composition, plate tectonics, seawater dynamics and chemistry, atmosphere and ocean currents, waves, coastal land forms, and marine life. In addition, students will learn how closely linked weather, climate, and humans are to the oceans. 3 lecture hours per week.</td>
</tr>
<tr>
<td>GEO 1110</td>
<td>Physical Geology *PS</td>
<td>0.00 - 4.00 CR</td>
<td>For students majoring in the sciences and engineering, for which geology is required (civil engineering, geology, range management, forestry, etc). Covers the study of the physical features of the earth and the processes that shape those features. Course taught using a combination of lectures, multi-media presentations, assignments, laboratory experiences, and field observations. Successful completion gives students the background necessary for further study in the sciences. Lab fee required (transportation). 3 lecture hours per week, and field trips.</td>
</tr>
<tr>
<td>GEO 1115</td>
<td>Physical Geology LAB</td>
<td>1.00 CR</td>
<td>A lab course to be taken concurrently with GEO 1110. Lab fee required. 2 lab hours per week.</td>
</tr>
<tr>
<td>GEO 2990</td>
<td>Seminar in Geology</td>
<td>0.50 - 3.00 CR</td>
<td>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 elective and does not fulfill general education or program requirements.</td>
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**GEOG 1000 Physical Geography *PS**

For students with an emphasis in geography and all students interested in fulfilling general education social science requirements. Examines the geographer’s perspective on people and their environments. Attention given to the cultural landscape, history, rural-urban behavior, and an overview of economic and political-regional conditions in various areas of the world. A lecture course that may include films, field trips, guest lectures, and group work. This course is a basic requirement for geography majors at many four-year schools, and successful completers should be prepared for more advanced study in geography. 3 lecture hours per week.

**GEOG 1400 Human Geography *SS**

For students majoring in geography and all students interested in fulfilling general education social science requirements. Examines the geographer’s perspective on people and their environments. Attention given to the cultural landscape, history, rural-urban behavior, and an overview of economic and political-regional conditions in various areas of the world. A lecture course that may include films, field trips, guest lectures, and group work. This course is a basic requirement for geography majors at many four-year schools, and successful completers should be prepared for more advanced study in geography. 3 lecture hours per week.
GERMAN (GERM)

GERM 1010  Beg German I *FL  4.00 CR
This course is taught fall semester only. For beginning students interested in the German language. 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, along with one other German course will fulfill the Foreign Language requirement for students to receive an Associate of Arts degree. Successful completers are prepared to take GERM 1020. 4 lecture hours per week.

GERM 1020  Beg German II *FL  4.00 CR
This course is taught spring semester only. For students interested in German language who have completed German 1010 or who have equivalent experience (approximately two years of high school German). Students using 1020 as an entry level class may receive vertical credit for German 1010 upon passing 1020 with a C grade or higher. Continued emphasis on developing communicative skills is the focus of this class, including speaking, listening, reading, and writing. Several teaching methods are employed, including lecture, drill practice, videos, and group work. This course, along with one other German course, will fulfill the Foreign Language requirement for students to receive an Associate of Arts degree. Prerequisite: GERM 1010 or instructor permission. 4 lecture hours per week.

GERM 2010  Intermediate German I  4.00 CR
This course is taught fall semester only. For intermediate-level students who have taken German 1020, or for students who have had equivalent experience (four or more years of high school German). Normally, students who have had an extended experience abroad should not register for this series of classes; instead, they should register for Advanced German classes. Students who begin their German studies at the intermediate levels may receive vertical credit for the beginning level classes if they receive a C grade or higher. Continued emphasis on communicative competence, including speaking activities, listening development, reading authentic materials, and writing. A variety of teaching methods are employed, including role-play and small group activities, discussion of reading materials and videos. This course, along with one other German course, will partially qualify students to receive an Associate of Arts degree. Successful completers are prepared to take German 2020. Prerequisite: Recommended background to register for German 1010 is successful completion of German 1020, three to four years of high school German or equivalent experience. Refer questions to Addison Everett at 652-7810. 4 lecture hours per week.

GERM 2020  Intermediate German II  4.00 CR
This course is taught spring semester only. For intermediate-level students who have taken German 2010. Students who begin their German studies at the intermediate levels may receive vertical credit for the beginning level classes if they receive a C grade or higher. Continued emphasis on communicative competence, stressing the four productive and receptive skills. Grammatical structure will be reviewed, conversation will be emphasized, and reading and writing will receive increased focus. A variety of teaching methods are employed, including drills, videos, conversational activities, reading, and lecture. This course, along with one other German course, will partially qualify students to receive an Associate of Arts degree. Prerequisite: Recommended background to register for German 2020 is successful completion of German 2010, four to five years of high school German, or equivalent experience. Direct questions to Addison Everett at 652-7810. 4 lecture hours per week.

GERM 2990  Seminar in German  0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, 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 instructional methods. Note that this course is an elective and does not fulfill general education or program requirements. Prerequisite: Instructor permission.

HISTORY (HIST)

HIST 1100  Western Civilization I *SS  3.00 CR
For all students interested in history. 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. This course may be used to fill social science general education requirements. 3 lecture hours per week.

HIST 1110  Western Civilization II *SS  3.00 CR
For all students interested in history. 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. This course may be used to fill social science general education requirements. 3 lecture hours per week.

HIST 1660  Utah History  3.00 CR
General interest, for all citizens of the state and for all ages including history/social science majors and education majors and retirees. Includes an examination of the entire 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 through the course. Uses readings, writing assignments, lectures, discussions, films and oral student reports. 3 lecture hours per week.

HIST 1700  American Civilization *AI  3.00 CR
For students seeking to fill the American Institution requirement that must be completed by all who receive a bachelor’s degree from a Utah school. Surveys the historical, constitutional and economic growth of the United States from colonial times to the present. A lecture course which also employs discussion, audio-visual materials and various other instructional methods. Helps students acquire a greater understanding and appreciation of our American heritage and the responsibilities of all American citizens. Prerequisite: A placement score of 17 or higher in Reading, or a successful challenge test in Reading taken at the Testing Center, or English 1470. 3 lecture hours per week.

HIST 2990  Seminars in History  0.50 - 3.00 CR
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 instructional methods. Note that this course is an elective and does not fulfill general education or program requirements. Prerequisite: Instructor permission.

HIST 3670  Slavery and the Am Republic  3.00 CR
This course explores the creation of slavery in North America from European settlement until 1865. It 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 efforts to abolish the institution before the Civil War. Prerequisites: ENGL 1010 and HIST 1700. 3 lecture hours per week.

HIST 3730  The Am Civil War/Reconstruction  3.00 CR
This course examines America’s greatest crisis from the Mexican War (1846-48) through the abandonment of Reconstruction in 1866. It explores 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. 3 lecture hours per week.

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### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 3740</td>
<td>The Emergence of Modern America</td>
<td>3.00 CR</td>
</tr>
<tr>
<td>HIST 4730</td>
<td>Society/Culture in US 1780-1865</td>
<td>3.00 CR</td>
</tr>
</tbody>
</table>

**HIST 3740**
This course is 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, and ending with the onset of WWII. Prerequisites: ENGL 1010 and HIST 1700. 3 lecture hours per week.

**HIST 4730**
This course offers a topical examination of American cultural and social history between the Revolution and the Civil War. Topics include 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. 3 lecture hours per week.

### HEALTH SCIENCES (HLOC)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HLOC 1000</td>
<td>Medical Terminology</td>
<td>2.00 CR</td>
</tr>
<tr>
<td>HLOC 1001</td>
<td>1st Year Intro to Nursing/Allied Health</td>
<td>1.00 CR</td>
</tr>
<tr>
<td>HLOC 1010</td>
<td>Intro to Health Professions</td>
<td>2.00 CR</td>
</tr>
<tr>
<td>HLOC 1020</td>
<td>Intro to Sports Medicine</td>
<td>3.00 CR</td>
</tr>
<tr>
<td>HLOC 1030</td>
<td>Basic Electrocardiogram</td>
<td>0.50 CR</td>
</tr>
<tr>
<td>HLOC 1040</td>
<td>12 Lead Electrocardiogram</td>
<td>0.50 CR</td>
</tr>
<tr>
<td>HLOC 1050</td>
<td>Cardiac-Pulmonary Resuscitation</td>
<td>0.50 CR</td>
</tr>
</tbody>
</table>

**HLOC 1000**
Strongly recommended for those students entering health-related professions. Other science majors as well as non-majors should find the course valuable. Emphasis is placed upon memorization of word roots, suffixes, and prefixes of both Greek and Latin origin. Proper pronunciation and spelling of medical terms are stressed. Material organized according to body systems; some basic anatomy and physiology will be presented. The text/workbook contains interactive exercises which facilitate student learning and retention of information. Successful completion of the course should prepare students to be proficient at speaking the language of medicine. Does not fulfill general education requirements in the Life Sciences, but does count toward elective credit. 2 lecture hours per week.

**HLOC 1001**
This course is designed to help students 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 be encouraged to explore the collaborative relationships necessary for inter disciplinary health care. 2 lecture hours per week.

**HLOC 1010**
This course is recommended for those students majoring in health or related professions. Emphasis is upon the health care system in the United States including health care reform, current political, social and ethical issues, and changes in educational and legal requirements. Coverage of more than sixty health and health-related professions, including information on salaries, employment opportunities and trends, and various associations. In addition to other written assignments, students will prepare a resume and learn valuable tips on interviewing techniques and job hunting. Successful completion of the course should enable students to better select a career in health care which is suited to them. Satisfies prerequisites for Allied Health Sciences Courses. 2 lecture hours per week.

**HLOC 1020**
Course is designed for individuals interested in a career in athletic training, physical therapy, orthopedics, coaching, or other physical education or fitness related fields. The basics of sports medicine, i.e., prevention of injury, evaluation of injury, and management of injury are discussed. A lab component is also part of this class, where students will have hands on, in the field experience with athletic trainers and therapists. There are no pre-requisites, however BIOL 1020, 2040, and PE 2050 are strongly recommended. 3 lecture hours per week.

**HLOC 1030**
Designed to teach hospital, clinic, or pre-hospital prepared clinicians the basic understanding of heart physiology, electro conductivity, dysrhythmia recognition, and treatment. It is recommended that those interested in this course have some medical training, and interest or need in cardiac care. Prerequisite: Instructor permission required.

**HLOC 1040**
This course is designed as a continuation of HLOC 1030. It provides those who have completed basic training in electrocardiogram advanced training in electrocardiograph tracing, diagnosing, and treatment. HLOC 1030 or equivalent training is required and this class is by instructor permission only. Prerequisite: Instructor permission required.

**HLOC 1050**
This class will meet the needs of individuals who are interested in CPR training at multiple levels. Depending upon the skill level requested or required, the following techniques will be taught: airway management, adult/child/infant, cardio pulmonary resuscitation adult/child/infant, use of pocket masks. Fee required. Prerequisite: Instructor permission required.

**HLOC 1060**
This class is designed to meet the needs of individuals who are interested in basic first aid training. Techniques taught in this class include but are not limited to; bleeding control and treatment, stabilization of fractures - sprains - dislocations, metabolic and environmental emergencies. The intent of this class is to meet those community, agency, or health care provider students needs, and for individuals who have a required or personal interest in basic first aid. This class is a prerequisite class for CNA and PN Programs. Fee required. Prerequisite: Instructor permission required.

### HEALTH SCIENCES (HLOC)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLOC 1060</td>
<td>First Aid</td>
<td>0.50 CR</td>
</tr>
<tr>
<td>HLOC 1070</td>
<td>Intravenous Therapy</td>
<td>1.50 CR</td>
</tr>
<tr>
<td>HLOC 1090</td>
<td>Advanced Cardiac Life Support</td>
<td>1.50 CR</td>
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</tbody>
</table>

**HLOC 1060**
IV Therapy is designed to provide hospital and pre-hospital care givers training in intravenous access at the basic level. The intent of this class is to provide a course for professionals who need this training as a requirement for their current position, advanced training, or refresher class of previous IV training. This class is a prerequisite class for the RN Program. Prerequisite: Instructor permission required.

**HLOC 1070**
This course is designed by the American Heart Association to provide hospital and pre-hospital care givers training in advanced techniques of life support for the cardiovascular and respiratory compromised patient. Some of the techniques taught are: dysrhythmia recognition and treatment, respiratory compromise and treatment, and recognition of signs and symptoms of cerebral vascular accident patients and treatment. Some pre-hospital or hospital experience is required and this class is offered by instructor permission only. It is not recommended for those who have not had previous advanced training, or for those who have not been currently working with advanced cardiac patients. Prerequisite: Instructor permission and current BLS Health Care Provider Certification required.

**HLOC 1350**
This class is designed to prepare those who are anticipating taking the Advanced Cardiac Life Support class. It is not recommended for those who have not had previous advanced training, or for those who have not been currently working with advanced cardiac patients. Prerequisite: Instructor permission required.

**HLOC 1400**
This class is designed for those who have previously completed the Advanced Cardiac Life Support Class and are now ready to extend their certification to comply with the expiration of the original Advanced Cardiac Life Support Certification. Corequisite: Current BLS Health Care Provider Certification. Prerequisite: Instructor permission.

**HLOC 1450**
Pediatric Advanced Life Support is a course designed by the American Heart Association to provide hospital and pre-hospital care givers training in advanced techniques of life support for the pediatric patient. Some of the techniques taught are: recognition of respiratory failure and treatment, shock and treatment, airway and ventilation assessment and treatment, vascular access, medications and fluid therapy, cardiac disturbances, etc. It is not recommended for those who have not had previous advanced training, or for those who have not been currently working with pediatric patients. Prerequisite: Instructor permission. Corequisite: Current BLS Health Care Provider Certification.

**HLOC 1800**
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. Fall Section.

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**Note:**
- Prerequisites and credit hours vary by course.
- Some courses require specific background knowledge or certifications.
- Instructor permission may be required for certain courses.
- Health Sciences (HLOC) courses are designed to prepare students for careers in healthcare and related fields.
HLOC 1810 Health Occup Work Experience 1.00 - 3.00 CR
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. Spring section.

HLOC 1820 Health Occup Work Experience 1.00 - 3.00 CR
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. Summer section.

HLOC 2810 Neonatal Resuscitation Recert 0.50 CR
NRPPr is a course designed by the American Academy of Pediatrics (AAP) for those who have previously completed the Neonatal Resuscitation Program and are now ready to extend their certification to comply with keeping their status current. It is required that this course be taken prior to the expiration date of the original NRPP certification. Verification cards are issued through ENA upon completion of the course and records are verified. Prerequisite: Instructor permission. Corequisite: Current BLS Health Care Provider Certification.

HLOC 2820 Pediatric Ed Pre-Hospital Prof 1.00 CR
Pediatric Education for Prehospital Professionals is a course designed by the American Academy of Pediatrics (AAP) to provide prehospital medical professionals training and education in pediatric emergencies. This course is approximately 16 hours in length. Prerequisite: Current EMT-B certification and instructor permission. Corequisite: Current BLS Healthcare Provider certification or equivalent.

HLOC 2830 Pre-Hospital Trauma Life Supp 1.00 CR
Pre-Hospital Trauma Life Support is a course designed by the National Association of EMT's (NAEMT) in cooperation with the Committee on Trauma of the American College of Surgeons. It is targeted for the current Paramedic and designed to provide the knowledge and skills for the pre-hospital assessment and care of the trauma patient. This course is approximately 16 hours in length. Prerequisite: Current EMT-P and instructor permission. Corequisite: Current BLS Healthcare Provider certification or equivalent.

HLOC 2850 Emergency Nurse Pediatric Co 1.00 CR
ENPC is a training course designed by the Emergency Nurses Association (ENA), which provides emergency room nurses and nurse practitioners training in advanced techniques of life support for the pediatric patient in crises situations. Some techniques and skills include but are not limited to: epidemiology of the pediatric crises, initial assessment and triage, respiratory complications, burns, child maltreatment, toxicologic emergencies, and crises intervention. This course is recommended for those who have had previous training in advanced care of the pediatric patient in settings involving emergency care. Verification cards are issued through ENA upon completion of the course and records are verified. Prerequisite: Instructor permission. Corequisite: Current BLS Health Care Provider Certification.

HLOC 2880 Neonatal Resuscitation 0.50 CR
NRPPr is a course designed by the American Academy of Pediatrics (AAP) to provide hospital care-givers training in advanced techniques of life support for the newborn and full-term infant. Some techniques include but are not limited to: resuscitation, chest compression, endotracheal intubation, medications, and special considerations. This class is recommended for those who have had previous training or are currently working with neonatal patients. Verification cards are issued through AAP upon completion of the course and records are verified. Prerequisite: Instructor permission. Corequisite: Current BLS Health Care Provider Certification.

HLOC 2890 Trauma Nursing Core TNCC 1.00 - 3.00 CR
TNCC is a training course designed by Emergency Nurses Association, which provides trauma team members knowledge, technique, and skills that are needed to systematically assess and treat patients needing advanced life support due to sustained trauma which classifies them as a life threatening emergency. Some techniques and skills include, but are not limited to: biomechanics/mechanism of injury, initial assessment, trauma nursing process, airway management, and chest trauma management. This course is only recommended for those who have had previous medical training in dealing with advanced medical care, or are currently working in those areas. Verification cards are issued through ENA upon completion of the course and records are verified. Prerequisite: Instructor permission. Corequisite: Current BLS Health Care Provider Certification.

HLOC 2940 PALS Recertification 0.50 - 3.00 CR
This class is designed for those who have previously completed the Pediatric Advanced Life Support Class and are now ready to extend their certification to comply with keeping the certification current. It is recommended that this course be taken prior to the expiration date of the original Pediatric Life Support certification. Prerequisite: Instructor permission. Corequisite: Current BLS Healthcare Provider certificate required.

HLOC 3080 Advanced Sports Medicine 3.00 CR
This class is designed to introduce injury recognition, care and rehabilitation of injuries occurring to the active individual for Athletic Training. Prerequisite: HLOC 1020. 3 lecture hours per week.

HONORS (HON)

HON 1610 Dixie Forum 1.00 CR
For all students at Dixie State College. Course will introduce students to a variety of speakers presenting lectures or performances on artistic, historic, business, scientific, and other academic topics. Course may be repeated for credit. Successful completers will attend eight or nine presentations, and still be expected to write brief response papers.

HON 2800 Honors Seminar I 2.00 CR
This course is the first of a two-part sequence for students seeking Honors status upon graduation. The seminar will feature four faculty members from various disciplines who will select an issue, problem, work, figure, or other significant topic in their discipline to examine in-depth as an example of higher-level study in that discipline. Appropriate readings will be assigned, and students will have ample time to contribute to seminar discussions. Students will produce written work for each of the four seminar segments. This work will be evaluated for its cogency, insight, and clarity. Students who take HON 2800 must also enroll in HON 2810 in the Spring in order to be eligible to earn the designation With College Honors upon graduation. Prerequisite: 12 or more completed college credits and a cumulative GPA of 3.75 or higher. Instructor permission required.

HON 2810 Honors Seminar II 2.00 CR
This course is the second of a two-part seminar sequence for students seeking Honors status upon graduation. As with the first course, the seminar will feature four faculty members from various disciplines who will select an issue, problem, work, figure, or other significant topic in their discipline to examine in-depth as an example of higher-level study in that discipline. Appropriate readings will be assigned, and students will have ample time to contribute to seminar discussions. Students will produce written work for each of the four seminar segments. This work will be evaluated for its cogency, insight, and clarity. Students who take HON 2800 and HON 2810 are eligible to earn the designation With College Honors upon graduation. Prerequisite: Completion of HON 2800.

HUMANITIES (HUM)

HUM 1001 First Yr Sem/Hum & English 1.00 CR
This course is designed to help freshmen majoring in English or some other humanities discipline, including English education, literary studies, professional/technical writing, foreign language, and philosophy. The class will also help undecided humanities majors choose a field of study. This 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 college resources; and explore degree options, current job opportunities, and various career paths. 2 hours per week.
Course Descriptions

HUM 1010 Intro to Humanities *HU 3.00 CR
For students in all disciplines with an interest in exploring the interrelationship of art, literature, music, philosophy, architecture, sculpture, and other art forms. Enhances appreciation and understanding of all forms of creative human expression. Includes a text, films, group discussions, lecture, and written responses to the humanities through papers and exams. Successful students will demonstrate skill in discussing, reading and writing about the humanities. This course satisfies a general education requirement in the humanities. 3 lecture hours per week.

HUM 1100 Western Civilization I 3.00 CR
For all students interested in history. 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. 3 lecture hours per week.

HUM 1110 Western Civilization II 3.00 CR
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 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. 3 lecture hours per week.

HUM 2990 Seminar In Humanities 0.50 - 3.00 CR
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.

HUM 3030 Multicultural Studies 2.00 CR
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: Acceptance into a baccalaureate program or permission of upper-division advisor. 2 lecture hours per week.

INTERDISCIPLINARY ART (IART)

IART 1001 Intro/Bachelor Interdiscip Art 2.00 CR
This course is required for all entering freshmen, and is recommended for transfer students with 0-24 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. 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. 2 lab hours per week.

INTEGRATED STUDIES (ANTH)

INTS 1001 Intro to Integrated Studies 1.00 CR
This course 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, the course encourages students to explore themes, issues and problems in a number of disciplines as a means to developing an integrative, interdisciplinary perspective. Students will be challenged to approach their general education coursework in this manner in order to bring greater cohesiveness to their program. The course also introduces students to the important services, information and guidance students need to transition into and succeed in college, and it covers basic academic skills, strategies, and expectations; campus services and resources, including the library, the tutoring center, counseling and advisement, and financial aid; and important policies affecting students. 2 lecture hours per week.

INTS 3100 Interdisciplinary Studies 3.00 CR
Students expose the methods, practices, and theories of integrated, interdisciplinary study. Students collaborate on problem-solving projects in which they apply integrative approaches to common themes, ideas, issues, and events in various disciplines. Students also explore the conceptual basis of each of their two emphasis area disciplines. Includes academic reading, writing, and critical thinking activities. Each student also completes an academic plan that articulates his or her intentions for the senior capstone project and the projected path to completing the Integrated Studies degree. Prerequisite: ENGL 1010 with grade of C or better. 3 lecture hours per week.

INTS 3300 Diversity in Am Society 3.00 CR
Engages students in the study of racial/ethnic, class, gender, cultural, and religious differences in the context of a pluralistic American society and an increasingly global, cross-cultural world. Students consider how ideals of justice, opportunity, and acceptance conflict with the realities of discrimination, inequality, and apathy. Through independent research and writing and collaborative assignments, students examine how the imperative of diversity affects academic, business, social, political, and cultural assumptions and institutions. Prerequisite: ENGL 1010 (with an earned grade of C or higher). 3 lecture hours per week.

INTS 3500 Ethics and Values 3.00 CR
Examines the relationships and conflicts between values and ethics in a variety of personal, professional, public and disciplinary contexts. Students review the history of ethical philosophy and practice as they explore the major ethical systems that have developed over time. The course emphasizes the application of ethical theories to contemporary situations and problems: students learn how to evaluate ethical beliefs and behaviors in the context of real-world situations. Prerequisite: ENGL 2010 (with a grade of C or higher). 3 lecture hours per week.

INTS 3900 Interdisciplinary Topics: 3.00 CR
This course 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 in understanding complex issues and ideas. Topics vary, and instructional format may involve team-teaching. Repeatable for credit for different topics only. Prerequisite: ENGL 1010 with a grade of C or better. 3 lecture hours per week.

INTS 4890 Independent Study 1.00 - 3.00 CR
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 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 toward graduation. Prerequisite: INTS 3100 and Junior or Senior standing. 1-3 contact hours per week.

INTS 4900 Senior Project 3.00 CR
This course provides the culminating experience in the degree. 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 as it applies their coursework from the Integrated Studies core to the learning in the disciplines. Students will present their research results in a public form. May be repeated once or 6 total credits. Prerequisite: Senior standing. 3 lecture hours per week.

INFORMATION TECHNOLOGY (IT)

IT 1100 Intro to Operating Systems 3.00 CR
Introductory course for students in Computer Information Systems or in Computer and Information Technologies programs, or having general interest in operating systems. This course will instruct students in operating system concepts including virtual memory, file systems, process management, user management, and security. Students will be required to install and configure a variety of operating systems and software packages. 3 lecture hours per week.
Course Descriptions

IT 2400 Introduction to Networking 3.00 CR
Introductory course for students in Computer Information Systems or in Computer and Information Technologies programs, or having general interest in computer networking. This course will instruct students in the fundamental concepts of computer networks, including physical, transport, and application layers. Students will be required to complete assignments predicting and measuring the behavior of computer networks under various conditions. Additionally, students will be required to assemble networking components. Prerequisite: IT 1100. 3 lecture hours per week.

IT 3100 Systems Design and Admin I 3.00 CR
Course for students in Computer Information Systems or in Computer and Information Technologies programs. This course will instruct students in system administration topics, including computer hardware selection, user account management, file system optimization, and security. Basic system services such as FTP, WWW, email, printer, and DBMS will also be covered. Students will be required to install, configure, and test the services in a server environment. Prerequisites: CS 1400 and IT 2400, both with a C- or better. 3 lecture hours per week.

IT 3110 Systems Design & Admin II 3.00 CR
Course for students in Computer and Information Technologies programs. This course is a continuation of IT 3100. This course will instruct students in system administration topics, including DNS, file sharing, user profile sharing, system backups, performance monitoring and optimization, heterogeneous computer networks, and custom OS installations. Students will be required to install, configure, and test the services in a server environment. Prerequisite: IT 3100 with a C- or better. 3 lecture hours per week.

IT 3200 Perl Programming 3.00 CR
Course for students in Computer and Information Technologies programs. This course will instruct students in the syntax and common usage of the Perl programming language. Students will be required to develop programs using the Perl language. Prerequisite: CS 1410 with a C- or better. 3 lecture hours per week.

IT 3500 Electronic Commerce 3.00 CR
Upper level curriculum for students pursuing a degree in Computer and Information Technology (CIT) or business or advanced skills in the electronic commerce process. Teaches concepts and principles of electronic commerce from an interdisciplinary approach. Disciplines include computer science, marketing, consumer behavior, finance, economics, and information systems. Topics include the 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 on-going innovation. 3 lecture hours per week.

IT 4200 Advanced Web Delivery 3.00 CR
Course for students in Computer and Information Technologies programs. This course will instruct students in advanced web server configuration, management, and optimization necessary to provide web application delivery environments. Students will be required to complete projects using SSI, CGI, server modules, servlets, and other applications. Prerequisites: IT 3100 and VT 1400, both with a C- or better. 3 lecture hours per week.

IT 4300 Database Design and Management 3.00 CR
Course for students in Computer Information Systems or in Computer and Information Technologies programs. This course will instruct students in administration of database management systems, logical database design, implementation of database designs, and application development using a DBMS. Students will be required to design, manage and implement databases. Additionally, students will develop applications that use databases. Prerequisites: CS 1410 and IT 2400, both with a C- or better. 3 lecture hours per week.

IT 4400 Network Design & Management 3.00 CR
Course for students in Computer and Information Technologies programs. This course is a continuation of IT 2400. This course will instruct students in greater detail in the concepts of computer networks, including physical, transport, and application layers. The course will emphasize network design, monitoring and management. Students will be required to design, monitor and manage computer networks. Prerequisite: IT 2400 with a C- or better. 3 lecture hours per week.

IT 4500 Information Security 3.00 CR
This course is an upper-level course in computer related security. Students will review general security concepts and principles such as access control, database security, and intrusion detection. Students will also learn the major types of exploits and attacks such as denial of service and how to protect against them. Data security and recovery principles such as cryptography, steganography, and computer forensics will also be covered. This course will look at tools to mitigate security risks and to explore disaster recovery principles. Prerequisites: CS 1410 and IT 3100. Fee required. 3 lecture hours per week.

IT 4600 Senior Project 3.00 CR
Course for students in Computer Information Systems and Computer and Information Technologies programs. Students will be required to complete an aggressive project. Fulfills the CIT senior project requirement. Prerequisite: Senior status, last spring semester of program. Instructor permission required. 3 lecture hours per week.

JAPANESE (JAPN)

JAPN 1010 Begin Japanese I *FL 4.00 CR
This course is taught fall semester only. For beginning students interested in the Japanese language. 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, along with one other Japanese course, will fulfill the Foreign Language requirement for students to receive an Associate of Arts degree. Successful completers are prepared to take JAPN 1020. 4 lecture hours per week.

JAPN 1020 Begin Japanese II *FL 4.00 CR
This course is taught spring semester only. 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). Students using 1020 as an entry level course may receive vertical credit for Japanese 1010 upon passing 1020 with a C grade or higher. 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. This course, along with one other Japanese course, will fulfill the Foreign Language requirement for students to receive an Associate of Arts degree. Prerequisite: JAPN 1010 or instructor permission. 4 lecture hours per week.

JAPN 2990 Seminar in Japanese 0.50 - 3.00 CR
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.

LIBRARY SCIENCE (LIB)

LIB 1010 Information Literacy *IL 1.00 CR
This course introduces students to college-level research and fulfills the General Education requirement for information literacy. After successfully completing this course, students have met the Association of College and Research Libraries basic Information Literacy Standards for Higher Education. Specifically, students will be able 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. This competency-based class is graded Pass/Fail, and most sections will be offered online.
Course Descriptions

MATHMATICS (MATH)

MATH 0920  Basic Math/Pre-Algebra  4.00 CR
Designed for students with an ACT 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. This course is offered in two delivery formats--lecture and individualized. Lecture format: A placement inventory is used to design a personalized program of study. Students work on their programs with an instructor present for individual instruction when needed. Minimum testing deadlines must be met. Satisfies prerequisites for Math 0990. Course fee required on individualized format courses. 4-5 lecture hours per week.

MATH 0990  Elementary Algebra  4.00 CR
Designed for students with an ACT math score of 13-17, or for students needing to learn or review elementary algebra. Covers operations on integers, fractions, integral exponent, polynomials with factoring, linear and quadratic equations with applications, rational expressions, linear systems, graphing, and radicals. Computer-aided instruction. Satisfies prerequisites for MATH 1010. Prerequisite: MATH 0920 or ACT score of 13 or higher. 4 lecture hours per week.

MATH 1001  1st Yr Exp - Intro to Math  1.00 CR
MATH 1001 is an orientation course created to help students succeed in the math major. It is also designed to help new freshman and returning students to make a successful transition to being a college student. The primary objective of this course is to provide you with the resources you will need to succeed in your college career, particularly in your math courses. 2 lecture hours per week.

MATH 1010  Intermediate Algebra  4.00 - 5.00 CR
Designed for students who need preparatory work before entering the minimum 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. This course is a lecture course and will include homework assignments, quizzes, tests, and a comprehensive final exam. Successful completion of the course gives students good preparation for college-level math courses. Satisfies prerequisites for MATH 1030, 1050, 1090, and BIOL 2400. Prerequisite: MATH 0990 (with an earned grade of C or better) or ACT score of 18 or higher within two years of enrollment. 4 or 5 lecture hours per week.

MATH 1020  Geometry  3.00 CR
Designed to remove deficiency in high school geometry. 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: One year of high school algebra, or MATH 0930 with an earned grade of C or better or concurrent enrollment with Math 1010; open to students without geometry in high school. 3 lecture hours per week.

MATH 1030  Quantitative Reasoning "MA  3.00 CR
This course is designed for general studies or liberal arts students majoring in humanities or other non-science programs seeking only an associate degree or certificate. The focus of the course is on the 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. Successful completion of this course will satisfy the general education math requirements. Students who wish to enter four year programs are strongly encouraged to check with departments at transfer schools to determine program compatibility. Although this course transfers to all colleges and universities in Utah, it does not commonly meet specific department requirements. Prerequisite: MATH 1010 (with an earned grade of C or better) or ACT score of 23 or higher. 3 lecture hours per week.

MATH 1040  Intro to Statistics "MA  3.00 CR
Designed as an introduction to basic concepts and methods used in statistical data analysis. Course includes descriptive statistics, sampling and inferential methods. Emphasizes problem solving and critical thinking. Prerequisite: Math 1010 (with an earned grade of C or better) OR placement test score of 23 or higher. 3 lecture hours per week.

MATH 1050  College Alg/Pre-Calculus "MA  4.00 - 5.00 CR
Designed for students majoring in science and engineering who need a calculus and/or physics series. Review of fundamental algebra. Polynomial and rational functions will be explored. Introduction into exponential and logarithmic functions and their applications. Trigonometric functions dealing with graphs, identities and equations including inverse functions. This course is a lecture course with homework assignments, quizzes, tests, and a comprehensive final exam. Successful completion of the course prepares students for MATH 1060. Satisfies prerequisites for MATH 1060, MATH 1100 and MATH 2010. Math 1050 is required for Utah Teacher Certification. Prerequisite: MATH 1010 (with an earned grade of C or better) or ACT score of 23 or higher within two years of enrollment. 4 to 5 lecture hours per week.

MATH 1060  Trigonometry "MA  3.00 CR
Continuation of MATH 1050. Further discussion in trigonometry and its applications. Analytic Geometry including conic sections, systems of equations and inequalities and partial fractions. Introduction into discrete algebra including sequences and series and the binomial theorem. This course is a lecture course with homework assignments, quizzes, tests, and a comprehensive final exam. Successful completion of the course provides students with the concepts needed to continue in a Physics or Calculus series. Satisfies prerequisites for MATH 1210 and PHSX 1110. Prerequisite: Math 1050 (with an earned grade of C or better) or equivalent. 3 lecture hours per week.

MATH 1065  Precalculus w/Trigonometry "MA  5.00 CR
Designed for students who need an in depth review of precalculus and trigonometry before entering trig-based calculus. This course reviews the mathematical concepts taught in Math 1050 and Math 1060. Students who choose to apply Math 1065 toward graduation cannot also count Math 1050 or Math 1060. Prerequisite: Within the previous two years a placement test score equivalency of 25 or better OR within the past two years Math 1010 with an earned grade of B or better OR successful precalculus experience more than two years ago. 5 lecture hours per week.

MATH 1080  Math of Technology  3.00 CR
Designed for students in technical fields. Topics include review of basic mathematical operations, including basic number systems, fractions, percentages, exponents and scientific notation. Basic geometry and algebra are reviewed and the practical application of trigonometry is studied. Hand-held calculator usage is included. 3 lecture hours per week.

MATH 1100  Business Calculus "MA  3.00 CR
Designed for students majoring in business, life sciences, certain computer science emphases, and certain allied health programs who are required to take a one semester calculus course. Concepts emphasized in this course include functions, modeling, differentiation, applications of differentiation, exponential and logarithmic functions, integration, applications of integration, and functions of several variables. Course includes; lectures, homework assignments, quizzes, tests, and a comprehensive final exam. Successful completion of the course provides students with the required calculus techniques that satisfy all areas requiring just one quarter of calculus. Prerequisite: Math 1050 or Math 1090 (with an earned grade of C or better) or ACT score of 25 or higher. 3 lecture hours per week.

MATH 1210  Calculus I "MA  5.00 CR
Designed for students intending to earn an Associate of Science degree and then transfer to a mathematics, engineering program, or other calculus-based major at a four-year institution. Students will gain a basic understanding of calculus, the mathematics of motion and change. Topics include 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. Course includes lecture and homework assignments, quizzes, tests and a final comprehensive exam. Successful completion of the course prepares students for Calculus II. Satisfies prerequisites for MATH 1220 and PHSX 2210. Prerequisites: MATH 1050 and MATH 1060, or MATH 1065 (with an earned grade
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of C or better) or ACT score of 26 or higher. (Math 1060 is strongly recommended for all students.) 5 lecture hours per week.

MATH 1220 Calculus II *MA 4.00 CR
This course is the continuation of MATH 1210. Topics covered includes arc length, area of a surface of revolution, moments and centers of mass, integration techniques, sequences and series, parameterization of curves and polar coordinates, vectors in 3-space, quadric surfaces, and cylindrical and spherical coordinates. Course includes lecture, homework assignments, quizzes, tests and final comprehensive exam. Successful completion of the course prepares students for MATH 2210. Prerequisite: Math 1210 (with an earned grade of C or better) or equivalent. 4 lecture hours per week.

MATH 1800 Mathematics Work Experience 1.00 - 3.00 CR
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. Fall section.

MATH 1810 Mathematics Work Experience 1.00 - 3.00 CR
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. Spring section.

MATH 1820 Mathematics Work Experience 1.00 - 3.00 CR
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. Summer section.

MATH 2010 Math for Elem Teachers I 3.00 CR
The first course in a two-semester sequence in mathematics appropriate to the needs of the elementary/middle school teacher. Topics include: problem solving, sets, numeration systems, whole numbers, algorithms of arithmetic, number theory, rational numbers and decimal numbers. Required for prospective elementary school teachers. Prerequisite: Math 1050 (with an earned grade of C or better) and is required for Level 1 Math Endorsement and Elementary (K-8) Certification. 3 lecture hours per week.

MATH 2020 Math for Elem Teachers II 3.00 CR
A continuation of Math 2010. Topics include: real numbers, statistics, probability, geometry, measurement, and algebra. Required for prospective elementary school teachers. Prerequisite: MATH 2010 with an earned grade of C or better. 3 lecture hours and 2 practicum hours per week.

MATH 2210 Multivariable Calculus *MA 3.00 CR
This course is the continuation of MATH 1220. Includes partial derivatives, gradient vectors, Lagrange multipliers, multiple integrals, line integrals, Green’s Theorem, surface integrals, the Divergence Theorem, and Stokes’ Theorem. MathCAD - Calculus will also be introduced in computer labs. Course includes lecture and homework assignments, quizzes, tests and a comprehensive final. Successful completion of the course prepares students for all areas that require calculus as a prerequisite. Satisfies prerequisites for ENGR 2000. Prerequisite: Math 1220 with an earned grade of C or better. 3 lecture hours per week.

MATH 2270 Linear Algebra 3.00 CR
Designed 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, eigenvalues and eigenvectors, linear transformations (kernel and range), inner product and orthogonality. Covers vector spaces and subspaces, including null and column and bases. Introduces basic proof theory. Uses lecture, text assignments, student presentations and discussions. Successful completion enhances students’ post-calculus mathematical skills. Prerequisite: Math 1210 with an earned grade of C or better. 3 lecture hours per week.

MATH 2280 Ordinary Differential Equation 3.00 CR
Designed for mathematics and pre-engineering majors. Covers methods of solving ordinary differential equations with applications. Separation of variable, 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 will be covered. Systems of equations, power series solutions, and the Laplace transform will be introduced. Uses lecture, text assignments, student presentations, and class discussion. Successful completion enhances students’ post-calculus mathematical skills with applications. Prerequisite: Math 2210 and Math 2270 with an earned grade of C or better. (Concurrent enrollment allowed.) 3 lecture hours per week.

MATH 2300 Discrete Mathematics 3.00 CR
Designed primarily for students majoring in computer science. Topics include logic (including Boolean), set theory, functions, prepositional calculus, graph theory, combinatorics and counting methods. Prerequisite: Math 1100 or 1210 (with an earned grade of C or better). (Offered spring semesters.) 3 lecture hours per week.

MATH 2983 TI-83 Calculator Skills 1.00 CR
A course designed specifically to aid students in using the TI-83 calculator. A study guide will be provided, with demonstrations projected overhead for students to follow as they learn through hands-on experience. Covered features include basic computations, graphing techniques, and matrices. The TI-82 is similar to the TI-83. Students with TI-82 calculators are also welcomed to enroll. Prerequisite: Own or have access to TI-83, TI-83 Plus, or TI-82 calculator. One lecture hour per week.

MATH 2989 TI-89 Calculator Skills 1.00 CR
A course designed specifically to aid students in using the TI-89 calculator. A study guide will be provided, with demonstrations projected overhead for students to follow as they learn through hands-on experience. Covered features include basic computations, matrices, graphing, and calculus applications. The TI-92 and TI Voyage 200 calculators are similar to the TI-89 and are also acceptable tools for the course. Prerequisite: Own or have access to TI-89, TI-92 or TI Voyage 200 calculator. One lecture hour per week.

MATH 2990 Seminars in Math 0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, either student demand for some type of non-traditional instruction, or an unexpected opportunity for instruction presents itself. The seminar courses provides a variable credit context for these purposes. 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.

MATH 3000 History of Mathematics 3.00 CR
Designed for all interested students. This course is a brief survey of the history of mathematics and its impact on world culture. Emphasis will be on the principal ideas of importance in the development of the subject, mathematical motivations and applications. This course partially fulfills requirements for Mathematics Endorsements Level 4 through the Utah State Office of Education. Offered upon sufficient demand. Prerequisite: MATH 1220 (with an earned grade of C or better). 3 lecture hours per week.

MATH 3100 Euclidean/Non-Euclidean Gmtry 3.00 CR
Designed primarily for education majors. This course includes axiomatic development of geometry: Euclidean and non-Euclidean. This course partially fulfills re-
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requirements for Mathematics Endorsements Level 3 and 4 through the Utah State Office of Education. Offered upon sufficient demand. Prerequisite: MATH 1220 and MATH 2300 (with an earned grade of C or better). 3 lecture hours per week.

MATH 3200 Intro to Analysis
3.00 CR
Designed for those interested in advanced mathematics. This course introduces the construction of rigorous proofs of mathematical claims in beginning analysis. This course partially fulfills requirements for Mathematics Endorsements Level 3 and 4 through the Utah State Office of Education. Offered upon sufficient demand. Prerequisite: MATH 2210, MATH 2280 and MATH 2300 (with an earned grade of C or better). 3 lecture hours per week.

MATH 3210 Intro to Analysis II
3.00 CR
Continuation of MATH 3200. Advanced Multivariable Calculus. Topics include continuity, differentiation, chain rule, Riemann integration, Fubini-\gamma theorem, change of variable formula. Prerequisite: MATH 3200. 3 lecture hours per week.

MATH 3400 Probability and Statistics
3.00 CR
Designed for students in majors that require math-based statistics. This course is a study of probability theory and mathematical statistics including applications. This course partially fulfills requirements for Mathematics Endorsements Level 3 and 4 through the Utah State Office of Education. Offered upon sufficient demand. Prerequisite: MATH 1220 (with an earned grade of C or better). 3 lecture hours per week.

MATH 3500 Numerical Analysis
3.00 CR

MATH 3900 Number Theory
3.00 CR
An overview of number theory and its applications, including the integers, factorizations, modular arithmetic, congruences, Fermat’s and Euler’s Theorems, diophantine equations, cryptography, and RSA algorithm. Prerequisite: MATH 2300. 3 lecture hours per week.

MATH 4000 Foundations of Algebra
3.00 CR
Designed for students in all math-related majors. This course covers an introduction to algebraic systems including groups, rings, fields and sets. This course partially fulfills requirements for Mathematics Endorsements Level 3 and 4 through the Utah State Office of Education. Offered upon sufficient demand. Prerequisite: MATH 1220 and MATH 2300 (with an earned grade of C or better). 3 lecture hours per week.

MATH 4010 Abstract Algebra
3.00 CR
Continuation of MATH 4000. Topics include Sylow Theory for finite groups, Galois Theory, factorization in commutative rings. Prerequisite: MATH 4000. 3 lecture hours per week.

MATH 4100 Intro to Topology
3.00 CR
An overview of elementary point-set topology. Topics include topological spaces, compactness, connectedness, metric spaces, and Hausdorff spaces. Prerequisites: MATH 2210, MATH 2300. 3 lecture hours per week.

MATH 4200 Intro to Complex Analysis
3.00 CR
An overview of basic theory and applications of complex variables. Topics include analytic functions, contour integration, and conformal mappings. Prerequisite: MATH 3200. 3 lecture hours per week.

MATH 4500 Methods/Tchg Sec School Math
3.00 CR
Designed for education majors. This course covers methods, remedial instruction and curriculum development for secondary school mathematics. Includes applications of calculators and computers in mathematics. This course partially fulfills requirements for Mathematics Endorsements Level 2-4 through the Utah State Office of Education. Offered upon sufficient demand. Prerequisite: MATH 1210 (with an earned grade of C or better). 3 lecture hours per week.

MATH 4200 Intro to Complex Analysis
3.00 CR
An overview of basic theory and applications of complex variables. Topics include analytic functions, contour integration, and conformal mappings. Prerequisite: MATH 3200. 3 lecture hours per week.

MANAGEMENT (MGMT)

MGMT 1650 Supervision Management
3.00 CR
Designed to teach a target group of two-year college students, newly appointed working supervisors and employer identified participants of in-house training programs. It is an effort to provide preparation in areas such as the functions of organizations, communications, personal management, leadership, motivational factors, employee appraisal, productivity and career paths for supervisors. Students will have an opportunity to exercise management decision-making skills and problem-solving techniques through the use of group discussions an up-to-date case analysis in relevant situations. 3 lecture hours per week.

MGMT 1800 Management Work Experience 1.00 - 3.00 CR
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. Fall section.

MGMT 1810 Management Work Experience 1.00 - 3.00 CR
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. Spring section.

MGMT 1820 Management Work Experience 1.00 - 3.00 CR
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. Summer session.

MGMT 1820 Business Law 3.00 CR
Survey of legal environment for business majors or students with interest in business law. Cover the legal system including dispute resolution, property crimes, fundamental principles of tort liability, government regulation of enterprise and individuals, contracts, and sales. 3 lecture hours per week.

MGMT 2600 Entrepreneurship 3.00 CR
This is an introductory course designed to acquaint the entrepreneurial minded student with the advantages and disadvantages of owning and/or operating his/her business. The steps necessary for starting a small business will be covered. Construction of a business prospectus on a business of the student’s choice will give the potential entrepreneur the opportunity to pursue his/her own individual career interests as well as provide some hands on exposure to the real world of business. 3 lecture hours per week.

MGMT 2620 Principles of Management 3.00 CR
This comprehensive course covers the four traditional functions of management in planning, organizing, leading and controlling. In addition, specialized topics are covered, such as international issues and global competition, employee-participation, empowerment, TQM, teams and team structures, information systems, time-based competition, and chaos theory. Practical case studies and a computer simulation are used to gain realism in the course. Completers can go directly into work situations with an overall understanding of the workplace or onto a university degree program with greater depth than the usual junior level student. 3 lecture hours per week.
MGMT 3200  Small Business Management  3.00 CR
Addresses practical solutions to common problems and decisions facing the small business manager such as financing, inventory control, cash flow, personnel management, taxes, customer service, etc. 3 lecture hours per week. Prerequisite: ACCT 2010, ENGL 2010, MGMT 3400, and advanced standing in the business baccalaureate program.

MGMT 3400  Management and Organizations  3.00 CR
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 in organizations. Prerequisite: Advanced standing in the business baccalaureate program. 3 lecture hours per week.

MGMT 3510  Business Professional Ethics  2.00 CR
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: ENGL 1010 with a grade of C or better. 2 lecture hours per week.

MGMT 3600  Production and Operations  3.00 CR
Focuses on the management of resources for products or services within an organization. Covers facility location and layout, planning, and operational processes. Emphasizes product/service development, forecasting, inventory control, quality assurance, and research techniques. Prerequisites: STAT 2040 and advanced standing in the business baccalaureate program. 3 lecture hours per week.

MGMT 3700  Organizational Behavior  3.00 CR
In-depth examination of behavioral theories and research. Focuses on the individual in such areas as socialization, motivation, communication, leadership, decision-making, conflict resolution, team-building, and adaptation to change. Emphasis is on the application of behavioral and organizational theory to develop student's managerial, leadership, and interpersonal skills. Prerequisites: MGMT 3400 and advanced standing in the business baccalaureate program. 3 lecture hours per week.

MGMT 4000  Purchasing and Supply Mgmt  3.00 CR
Course will introduce students to the basic elements, issues, and problems of modern purchasing and supply management processes and practices. Emphasis will be given to identifying and solving purchasing and supply management problems. Prerequisite: MGMT 3600 (can be concurrently enrolled). 3 lecture hours per week.

MGMT 4200  Business Internships I  1.00 - 3.00 CR
Prerequisite: Advanced standing in the business baccalaureate program and advisor permission required.

MGMT 4210  Business Internships II  1.00 - 3.00 CR
Prerequisites: MGMT 4200, advanced standing in the business baccalaureate program, and advisor permission required.

MGMT 4300  Human Resource Mgmt  3.00 CR
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. Prerequisite: Advanced standing in the business baccalaureate program. 3 lecture hours per week.

MGMT 4400  International Business  3.00 CR
An exploration of the role of multinational corporations in worldwide economic development with emphasis on complexities confronting US firms operating in international markets. Explores international business, trade and foreign investment, and theories of international trade, economic development and international investment, as well as the many international agencies, (government and private), which affect international business by informing, regulating or financing it. Develops an appreciation of the unpredictable forces of foreign environments and explores how the international businessman responds to these influences. Prerequisites: MKTG 3010 (can be concurrently enrolled) and advanced standing in the business baccalaureate program. 3 lecture hours per week.

MGMT 4600  Six Sigma  3.00 CR
Six Sigma is a discipline, data driven approach to improving the quality and efficiency of any process. It is a proven business methodology with real financial benefits to the organization. This practical, hands-on course will teach the participant the basic concepts of Six Sigma and provide experience using those concepts and tools on a real-world business project. It is recommended that students take the course for two consecutive semesters in order to participate in a project from start to finish. The emphasis will be on practical tools and techniques which will give the participant the knowledge to get started working on any process from healthcare to manufacturing. Prerequisite: MGMT 3600. 3 lecture hours per week.

MGMT 4610  Six Sigma  3.00 CR
Six Sigma is a discipline, data driven approach to improving the quality and efficiency of any process. It is a proven business methodology with real financial benefits to the organization. This practical, hands-on course will teach the participant the basic concepts of Six Sigma and provide experience using those concepts and tools on a real-world business project. It is recommended that students take the course for two consecutive semesters in order to participate in a project from start to finish. The emphasis will be on practical tools and techniques which will give the participant the knowledge to get started working on any process from healthcare to manufacturing. Prerequisite: MGMT 3600. 3 lecture hours per week.

MGMT 4700  Strategic Management  3.00 CR
Designed as the capstone course for the Bachelor's Degree in Business Administration. Focuses on the role of the manager in dealing with strategy and implementation. Prerequisites: ACCT 3050, FIN 3150, MGMT 3400, MGMT 3600, MKTG 3010 (courses can be concurrently enrolled) and advanced standing in the business baccalaureate program. 3 lecture hours per week.

MGMT 4900  Independent Research I  1.00 - 3.00 CR
Independent research/readings in areas not fully covered by core or elective courses. Prerequisite: Advanced standing in the business baccalaureate program and advisor permission required.

MGMT 4910  Independent Research II  1.00 - 3.00 CR
Provides additional independent research/readings opportunities in areas not fully covered by current core or elective courses. Prerequisites: MGMT 4900, advanced standing in the business baccalaureate program, and advisor permission required.

MGMT 4950  Seminars in Business  1.00 - 3.00 CR
Special topics in Business Management offered periodically under this number. Prerequisite: Advanced standing in the business baccalaureate program.

MILITARY (MILS)

MILS 1200  Introduction to Leadership I  2.00 CR
Introduces cadets to the personal challenges and competencies that are critical for effective leadership. Cadets learn how the personal 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. The focus is on developing basic knowledge and comprehension of Army leadership dimensions while gaining a big picture understanding of the ROTC program, its purpose in the Army, and its advantages for the student. Corequisite: MILS 1201. 2 lecture hours per week.

MILS 1201  Intro to Leadership I Lab  1.00 CR
Studies the dynamics of leadership of groups and individuals in a field environment. Provides opportunities for students to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or in any career field they choose. Lab fee required. Corequisite: MILS 1200. 2 and one half lab hours per week.

MILS 1210  Introduction to Leadership II  2.00 CR
Overviews leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback, and using effective writing skills. Cadets explore dimensions of 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 aspects of the MILS 1210 experience. Corequisite: MILS 1211. 2 lecture hours per week.
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MILS 1211 Intro to Leadership II Lab 1.00 CR
Studies the dynamics of leadership of groups and individuals in a field environment. Provides opportunities for students to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or in any career field they choose. Lab fee required. Corequisite: MILS 1210. 2 and one half lab hours per week.

MILS 2200 Foundations of Leadership I 2.00 CR
Explores the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of the Army leadership framework. Cadets practice aspects of personal motivation and team building in the context of planning, executing, and assessing team exercises and participating in leadership labs. Focus is on continued development of the knowledge of leadership values and attributes through an understanding of Army rank, structure, and duties and basic aspects of land navigation and squad tactics. Case studies provide tangible context for learning the Soldiers Creed and Warrior Ethos as they apply in the contemporary operating environment (COE). Corequisite: MILS 2201. 2 lecture hours per week.

MILS 2201 Fdns of Leadership Lab I 1.00 CR
Studies the dynamics of leadership of groups and individuals in a field environment. Provides opportunities for students to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or in any career field they choose. Lab fee required. Corequisite: MILS 2200. 2 and one half lab hours per week.

MILS 2210 Foundations of Leadership II 2.00 CR
Examines the challenges of leading tactical teams in the COE (contemporary operating environment). The course highlights dimensions of terrain analysis, patrolling, and operation orders. Further study of the theoretical basis of the Army leadership framework explores the dynamics of adaptive leadership in the context of military operations. This course provides a smooth transition into the advanced ROTC courses. Cadets develop greater self-awareness as they assess their own leadership styles and practice communication and team building skills. COE case studies give insight into the importance and practice of teamwork and tactics in real world scenarios. Corequisite: MILS 2211. 2 lecture hours per week.

MILS 2211 Fdns of Leadership Lab II 1.00 CR
Studies the dynamics of leadership of groups and individuals in a field environment. Provides opportunities for students to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or in any career field they choose. Lab fee required. Corequisite: MILS 2210. 2 and one half lab hours per week.

MILS 3200 Tactical Leadership 3.00 CR
Challenges cadets to study, practice, and evaluate adaptive leadership skills as they are presented with challenging scenarios related to squad tactical operations. Cadets receive systematic and specific feedback on their leadership attributes and actions. Based on such feedback, as well as their own self-evaluations, cadets continue to develop the leadership skills. The focus is developing tactical leadership abilities of cadets to enable them to succeed at ROTC COE leadership development and assessment course (LDAC). Prerequisite: MILS 1200, MILS 1210, MILS 2200, MILS 2210 or basic training or summer Leadership Training Course (LTC). Corequisite: MILS 3201. 3 lecture hours per week.

MILS 3201 Tactical Leadership Lab 1.00 CR
Studies the dynamics of leadership of groups and individuals in a field environment. Provides opportunities for students to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or in any career field they choose. Lab fee required. Prerequisite: MILS 1200, MILS 1210, MILS 2200, MILS 2210 or basic training or summer Leadership Training Course (LTC). Co-requisite: MILS 3200. 2 and one half lab hours per week.

MILS 3210 Applied Leadership 3.00 CR
This course uses increasingly intense situational leadership challenges to build cadet awareness and skills in leading small units. Skills in decision-making, persuading, and motivating team members when under fire are explored, evaluated, and developed. Aspects of military operations are reviewed as a means of preparing for the ROTC Leader Development and Assessment Course (LDAC). Cadets are expected to apply basic principles of the Law of Land Warfare, Army training, and motivation to troop leading procedures. Emphasis is also placed on conducting military briefings and developing proficiency in Garrison operation orders. Cadets are evaluated on what they know and do as leaders. Corequisite: MILS 3211. 3 lecture hours per week.

MILS 3211 Applied Leadership Lab 1.00 CR
Studies the dynamics of leadership of groups and individuals in a field environment. Provides opportunities for students to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or in any career field they choose. Lab fee required. Corequisite: MILS 3210. 2 and one half lab hours per week.

MILS 3250 Staff Organ. and Operations 1.00 - 3.00 CR
Students enrolled in this course will participate as special project staff working on joint Army/campus ceremonies, leadership labs, field training exercises, community service events, and training camps. Prerequisite: Enrollment in ROTC, Variable credit course. Students should plan to spend 2-6 hours per week to meet course requirements.

MILS 3930 U.S. Military History 3.00 CR
This course is a 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 casual factors and operational dimensions of war. 2 lecture hours and 2 lab hours per week.

MILS 4200 Developmental Leadership 3.00 CR
This course develops cadet proficiency in planning, executing, and assessing complex operations, functioning as a member of a staff, and providing performance feedback to subordinates. Cadets assess risk, make ethical decisions, and lead fellow ROTC cadets. Lessons on military justice and personnel processes prepare cadets to make the transition to Army officers. MS IV cadets analyze, evaluate, and instruct cadets at lower levels. Both their classroom and battalion leadership experiences are designed to prepare these cadets for their first unit of assignment. They identify responsibilities of key staff, coordinate staff roles, and use situational opportunities to teach, train, and develop subordinates. Prerequisites: MILS 1200, MILS 1210, MILS 2200, MILS 2210 or basic training or summer Leadership Training Course (LTC). Corequisite: MILS 4201. 3 lecture hours per week.

MILS 4201 Developmental Leadership Lab 1.00 CR
Studies the dynamics of leadership of groups and individuals in a field environment. Provides opportunities for students to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or in any career field they choose. Prepares seniors for service in the United States Army. Prerequisites: MILS 1200, MILS 1210, MILS 2200, MILS 2210 or basic training or summer Leadership Training Course (LTC). Lab fee required. Corequisite: MILS 4200. 2 and one half lab hours per week.

MILS 4210 Adaptive Leadership 3.00 CR
This course explores the dynamics of leading in the complex situations of current military operations in the COE. Cadets examine differences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. They also explore aspects of interacting with nongovernmental organizations, civilians on the battlefield, and host nation support. The course places significant emphasis on preparing cadets for their first unit of assignment. It uses case studies, scenarios, and What Now, Lieutenant exercises to prepare cadets to face the complex ethical and practical demands of leading as commissioned officers in the United States Army. Corequisite: MILS 4211. 3 lecture hours per week.

MILS 4211 Adaptive Leadership Lab 1.00 CR
Studies the dynamics of leadership of groups and individuals in a field environment. Provides opportunities for students to apply leadership principles and techniques in challenging situations to further prepare them for leadership positions in the military or in any career field they choose. Prepares seniors for service in the United States Army. Prepares senior cadets for service in the United States Army. Lab fee required. Corequisite: MILS 4210. 2 and one half lab hours per week.

MILS 4250 Ranger Preparation 2.00 CR
Participation in Army ROTC Ranger Challenge and Mountain Ranger programs. Advanced military training with practical application of skills taught in MILS.
MKTG 2520 Principles of Display 2.00 CR
Special project staff work for Army campus ceremonies, Leadership labs, field training exercises, and training camps. Limited to ROTC cadets with the rank of Company or Battalion positions. Prerequisites: MILS 1200, MILS 1210, MILS 2200, MILS 2210 or basic training or summer Leadership Training Course (LTC). Instructor permission required. 3 lab hours per week.

MKTG 1820 Marketing Work Experience 3.00 CR
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. Spring section.

MKTG 1510 Principles of Salesmanship 3.00 CR
Designed as a course in salesmanship to train individuals interested in a career in sales in all aspects of the selling process, and prepare them for a variety of different selling situations and careers. Topics covered include proper prospecting methods, approaches, presentations, handling of objections, closing the follow-up, telemarketing, management of sales territories, sales forces, and sales meetings. Completers should be qualified to work as entry level sales associates or in sales management programs in either retail or non-retail positions. 3 lecture hours per week.

MKTG 1540 Marketing Skills Improvement 1.00 CR
Designed to allow current DECA 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. A wide variety of marketing and management skill areas will be covered. May be repeated for credit. Corequisite: MKTG 1530. One lecture hour per week.

MKTG 1810 Marketing Work Experience 1.00 - 3.00 CR
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. Spring section.

MKTG 1820 Marketing Work Experience 3.00 CR
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. Spring section.

MKTG 2540 Retail Advertising 3.00 CR
Designed for anyone interested in either a career in advertising or managing their own business. The course will focus on those aspects of advertising that would be important to anyone responsible for the planning and implementation of an advertising program within a business, especially a small or independent business. Students will receive hands on experience in developing an overall promotional plan for a business. Completers should be qualified to manage the overall promotional plan of a small or independent business. 3 lecture hours per week.

MKTG 2550 Marketing Essentials 3.00 CR
This course is aimed at the two-year business students to familiarize them with the vocabulary and the basic understanding of the marketing concepts. It gives an overview of the process of target marketing, marketing opportunities, product and distribution decisions, integrated marketing communications and pricing policies. Emphasis is given to the practical decisions to be made at the small business level and the coming Internet methods. 3 lecture hours per week.

MKTG 3010 Marketing Principles 3.00 CR
This course is required for Music majors. Emphasizes critical listening of a wide range of music literature and performances. Requires attendance at a minimum of 8 concerts/recitals per semester. Required for 4 semesters. Prepares students with models for future recitals. Requires attendance at evening performances. 1 lab hour per week.

MUSIC (MUSC)

MUSC 1000 Concert Attendance 0.00 CR
This course is required for Music majors. Emphasizes critical listening of a wide range of music literature and performances. Requires attendance at a minimum of 8 concerts/recitals per semester. Required for 4 semesters. Prepares students with models for future recitals. Requires attendance at evening performances. 1 lab hour per week.

MUSC 1001 Freshman Music Experience 1.00 CR
This course is required for all music majors. Introduction to the music area and its programs, department policies and procedures, career options, and curriculum. 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. 2 lab hours per week.
Course Descriptions

MUSC 1010 Introduction to Music *FA 3.00 CR
For all students, including those with an emphasis in music or those seeking to fill the 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. 3 lecture hours per week.

MUSC 1100 Fundamentals of Music 3.00 CR
For students desiring to begin or review their basic musical education. Teaches fundamental music terminology, rhythm and clef reading, key signatures, intervals, chord construction, and principles of musical structure. Lecture and class discussion of representative examples. Assignments are designed to give students practical experience in applying the concepts discussed in class. Students who successfully complete this course will be more proficient in reading rhythm and meter, writing and hearing scales, intervals, and chords. Good remedial course for those not prepared for Music Theory. 3 lecture hours per week.

MUSC 1110 Music Theory I 3.00 CR
Designed for students with an emphasis in music. This course is the first year of music theory study. The course deals with structural elements in melodic organization, triads, voice leading, nonharmonic tones, seventh chords, modulation, in the context of traditional four-part harmony; also two-part tonal counterpoint. Corequisite: MUSC 1130. Prerequisite: Applicable knowledge of the fundamentals of music and basic keyboard skills. Series must be taken in sequence. 3 lecture hours per week.

MUSC 1120 Music Theory II 3.00 CR
Designed for students with an emphasis in music. This course is the second of music theory study. The course deals with structural elements in melodic organization, triads, voice leading, nonharmonic tones, seventh chords, modulation, in the context of traditional four-part harmony; also two-part tonal counterpoint. Corequisite: MUSC 1140. Prerequisite: Applicable knowledge of the fundamentals of music and basic keyboard skills. Series must be taken in sequence. 3 lecture hours per week.

MUSC 1130 Ear Training & Sight Singing I 1.00 CR
Designed for students with an emphasis in music. This course is the first in a series of four of ear training and sight singing study dealing with aural and sight singing skills paralleling the theoretical material of Music Theory. Corequisite: MUSC 1110. Simple keyboard skills necessary. Series must be taken in sequence, with each course prerequisite to the next. 2 lab hours per week.

MUSC 1140 Ear Training/Sight Singing II 1.00 CR
Designed for students with an emphasis in music. This course is the second in a series of four of ear training and sight singing study dealing with aural and sight singing skills paralleling the theoretical material of Music Theory. Simple keyboard skills necessary. Series must be taken in sequence, with each course prerequisite to the next. Prerequisite: MUSC 1130. Corequisite: MUSC 1120. 2 lab hours per week.

MUSC 1150 Group Piano Instruction I 1.00 CR
For non-music majors and non-keyboard music majors. Introduction to reading music: treble and bass clef, proper piano technique, basic rhythm, music notation and elementary theory. Lab includes demonstrations, activities, opportunities for improvisation, individualized instruction and solo and ensemble experience. Students will be using electronic keyboards and will be introduced to the advancements of technology and its effect on the music industry. Series to be taken in sequence, with each course being prerequisite to the next course. Separate sections for music majors when enrollment permits. 2 lab hours per week.

MUSC 1160 Group Piano Instruction II 1.00 CR
For non-music majors and non-keyboard music majors. 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. Prepares students to harmonize major and minor melodies, play major and minor scales, primary chords and arpeggios, sight-read, and perform repertoire. Students will be using electronic keyboards and will be introduced to the advancements of technology and its effect on the music industry. Series to be taken in sequence, with each course being prerequisite to the next course. Separate sections for music majors when enrollment permits. Prerequisite: MUSC 1150. 2 lab hours per week.

MUSC 1200 Show Choir 1.00 CR
MUSC 1200 is open to all students through an audition. Teaches students performance skills in music and movement. Covers musical elements such as rhythm, pitch, blend and balance. Uses choral rehearsals techniques. Includes outside class time for performance including evenings/weekends. Requires an audition. Instructor permission required. 5 ensemble hours per week.

MUSC 1210 Vocal Theatre Performance 1.00 CR
This course is designed for students participating as vocal performers for the annual musical produced by the Theatre program. Student vocalists and choir members work closely with their conductor in developing supporting and on-stage performances. 2 ensemble hours per week.

MUSC 1250 Concert Choir 1.00 CR
A large ensemble, choral music experience designed for the general student interested in musical enrichment as well as for students with an emphasis in music. 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. Fulfills elective credits and may be repeated for credit. 4 ensemble hours per week.

MUSC 1260 Men's Chorus 1.00 CR
A small ensemble, choral music experience designed for singers of a more advanced ability than Music 1250. Students will actively participate in regular rehearsals and performances of appropriate musical literature from Medieval to vocal jazz. 3 ensemble hours per week.

MUSC 1270 Women's Chorus 1.00 CR
A small ensemble choral music experience designed for singers of a more advanced ability than Music 1250. The student will develop singing skills through rehearsals and performances of appropriate musical literature from Medieval to vocal jazz. 3 ensemble hours per week.

MUSC 1280 Women's Chorus 1.00 CR
A small ensemble choral music experience designed for singers of a more advanced ability than Music 1250. The student will develop singing skills through rehearsals and performances of appropriate musical literature from Medieval to vocal jazz. Fulfills elective credits and may be repeated for credit. 4 ensemble hours per week.

MUSC 1290 The Vocal Jazz Project 1.00 CR
A small choral ensemble of advanced singers dedicated to the study and performance of vocal jazz literature. The student will develop advanced concepts of good choral singing including balance, blend, intonation, tone, and interpretation through appropriate small ensemble vocal jazz music literature. Students will actively participate in regular rehearsals and public performances. Fulfills elective credits and may be repeated for credit. Prerequisite: Audition required. 2 ensemble hours per week.

MUSC 1310 Symphony Band 1.00 CR
This course is a performing ensemble for all interested musicians with instrumental or band experience in high school as well as for students with an emphasis in music. This course is a participation type class and provides the student experience in a large ensemble where they are able to practice their instrument 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.). The course also exposes the student to the standard band repertoire as well as the more recent or contemporary literature. Course
may be repeated for credit. No prerequisites or auditions required. 4 ensemble hours per week.

MUSC 1320 Varsity Band 1.00 CR
This course is 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. Instruction is through class participation. This band performs regularly at all home football and basketball games. Students in this ensemble may be remunerated for their services. May be repeated for credit. Co-requisite: MUSC 1310, Symphony Band. 2 ensemble hours per week.

MUSC 1330 Jazz Ensemble 1.00 CR
This course is for the instrumental musician with an interest or emphasis in the study and performance of jazz music. Students in this ensemble should have some previous experience in this medium as well as have a basic understanding of improvisation. Exposes the student to various styles of music including swing, Latin, rock and ballads through the medium of the big band (5 saxes, 5 trumpets, 5 trombones, piano, bass, drums, guitar). Course of study includes sight reading, improvisation and performance. May be repeated for credit. Co-requisite: MUSC 1310, Symphony Band. Audition may be necessary. 4 ensemble hours per week.

MUSC 1350 Symphony Orchestra 1.00 CR
The symphony orchestra is a performing ensemble for all interested musicians with instrumental orchestra and/or band experience in high school as well as for music majors. Symphony Orchestra includes winds, brass, strings, and percussion. This class focuses on the symphonic literature of the 16th, 17th, 18th, 19th, and 20th century composers. Students will develop sight reading rehearsal, and public performance skills as well as a knowledge and appreciation for the repertoire. Course may be repeated for credit. No prerequisites or auditions required. 6 ensemble hours per week.

MUSC 1370 Guitar Ensemble 1.00 CR
Performance class for guitar students to gain experience playing in ensemble situations, reading music and rhythms, and following a director. Students will need to be able to read music for guitar in 1st position. The ensemble will perform in many situations. This class will meet important ensemble requirements for performance majors. prerequisite: Read Music, 1st position chords. 3 ensemble hours per week.

MUSC 1730 Group Vocal Instruction I 1.00 CR
For students desiring basic vocal training. This training will cover basic singing technique including breathing, registration, vowel and consonant formation, and overall coordination of the singing mechanism. An understanding of both the theory and practice of these techniques will be explored. The course is intended for future music educators as well as students who wish to improve their own singing. In-class singing of exercises and song literature of various popular and classical styles. Students will be required to sing solo before the class as part of daily activities. Students who successfully complete this course will have a thorough knowledge of the guitar fingerboard. Can be repeated for credit. 2 lab hours per week.

MUSC 1800 Intermediate Guitar 1.00 CR
This course is for students with basic skills that wish to advance their abilities. 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. Can be repeated for credit. 2 lab hours per week.

MUSC 1801 Priv Appl I Non-Mus Maj:Vocal 1.00 CR
Private music lessons designed for the general education student seeking to increase skills in vocal performance either to satisfy immediate goals or to explore the possibilities of majoring in music. Course may be repeated for credit. Lab fees required. 1 individual hour per week.

MUSC 1802 Priv Appl I Non-Mus Maj:Piano 1.00 CR
Private music lessons designed for the general education student seeking skills in piano performance either to satisfy immediate goals or to explore the possibilities of majoring in music. Course may be repeated for credit. Lab fees required. 1 individual hour per week.

MUSC 1803 Priv Appl I Non-Mus Maj:Brass 1.00 CR
Private music lessons designed for the general education student seeking to increase skills in brass performance either to satisfy immediate goals or to explore the possibilities of majoring in music. Course may be repeated for credit. Lab fees required. 1 individual hour per week.

MUSC 1804 Priv Appl I Non-Mus Maj:String 1.00 CR
Private string lessons on violin, viola, cello, or bass for non-music freshman and sophomore students. Students receive 12 30-minute lessons. Course may be repeated for credit. Lab fee required.

MUSC 1805 Priv Appl I Non-Mus Maj:WWind 1.00 CR
Private music lessons designed for the general education student seeking to increase skills in woodwind performance either to satisfy immediate goals or to explore the possibilities of majoring in music. Course may be repeated for credit. Lab fees required. 1 individual hour per week.

MUSC 1806 Priv Appl I Non-Mus Maj:Guitar 1.00 CR
Private music lessons designed for the general education student seeking to increase skills in guitar performance either to satisfy immediate goals or to explore the possibilities of majoring in music. Course may be repeated for credit. Lab fees required. 1 individual hour per week.

MUSC 1760 Brass Study 1.00 CR
This course is required for Instrumental Music Education majors. It also fulfills music elective credit for other music degree emphases. Teaches historic background of brass instruments and their pedagogy and performance. 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. Completers should be qualified to identify and remedy brass playing performance errors in grades 6-12 music. 2 lab hours per week.

MUSC 1770 Woodwind Study 1.00 CR
This course is required for Instrumental Music Education majors. It also fulfills music elective credit for other music degree emphases. Teaches historic background of woodwind instruments and their pedagogy and performance. 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. Completers should be qualified to identify and remedy woodwind playing performance errors in grades 6-12 music. 2 lab hours per week.

MUSC 1790 Beginning Guitar 1.00 CR
An introduction for all students interested in guitar. Teaches students to play chords, strum and fingerpick patterns, and read music in first position. Uses text, lecture, and guest lecturers. Students must practice three hours per week. Students who successfully complete this course will be able to teach themselves from standard sheet music. Can be repeated for credit. 2 lab hours per week.

This course is for the instrumentalmusician who has previous experience in high school bands or the equivalent. Teaches the fundamentals of good ensemble playing through Pop band music. Instruction is through class participation. This band performs regularly at all home football and basketball games. Students in this ensemble may be remunerated for their services. May be repeated for credit. Co-requisite: MUSC 1310, Symphony Band. 2 ensemble hours per week.

MUSC 1310 Symphony Band 1.00 CR
This course is 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. Instruction is through class participation. This band performs regularly at all home football and basketball games. Students in this ensemble may be remunerated for their services. May be repeated for credit. Co-requisite: MUSC 1310, Symphony Band. 2 ensemble hours per week.

MUSC 1330 Jazz Ensemble 1.00 CR
This course is for the instrumental musician with an interest or emphasis in the study and performance of jazz music. Students in this ensemble should have some previous experience in this medium as well as have a basic understanding of improvisation. Exposes the student to various styles of music including swing, Latin, rock and ballads through the medium of the big band (5 saxes, 5 trumpets, 5 trombones, piano, bass, drums, guitar). Course of study includes sight reading, improvisation and performance. May be repeated for credit. Co-requisite: MUSC 1310, Symphony Band. Audition may be necessary. 4 ensemble hours per week.
MUSC 1807  Pri Appl I Non-Mus Maj:Organ  1.00 CR
Private music lessons designed for the general education student seeking to increase skills in organ performance either to satisfy immediate goals or to explore the possibilities of majoring in music. Course may be repeated for credit. Lab fees required. 1 individual hour per week.

MUSC 1808  Pri Appl I Non-Mus Maj:Percuss  1.00 CR
Private music lessons designed for the general education student seeking to increase skills in percussion performance either to satisfy immediate goals or to explore the possibilities of majoring in music. Course may be repeated for credit. Lab fees required. 1 individual hour per week.

MUSC 1810  Priv Appl Mus Ed Major I:Vocal  1.00 CR
Private vocal instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 1811  Priv Appl Mus Ed Major I:Piano  1.00 CR
Private piano instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 1812  Priv Appl Mus Ed Major I:Brass  1.00 CR
Private brass instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 1813  Priv Appl Mus Ed Major I:String  1.00 CR
Private string instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 1814  Priv Appl Mus Ed Maj I:WWinds  1.00 CR
Private woodwind instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 1815  Priv Appl Mus Ed Major I:Guitar  1.00 CR
Private guitar instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 1816  Priv Appl Mus Ed Major I:Organ  1.00 CR
Private organ instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 1821  Priv Appl Ed Major I: Percuss  1.00 CR
Private percussion instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 1840  Priv Appl I Performance: Vocal  2.00 CR
Private music lessons designed for vocal performance students. Course may be repeated for a maximum of 2 credits. Participation in departmental recitals required. Lab fees required. Instructor permission required. One 60-minute lesson per week and one performance class per week.

MUSC 1841  Priv Appl I Performance: Piano  2.00 CR
Private music lessons designed for piano performance students. Course may be repeated for a maximum of 2 credits. Participation in departmental recitals required. Lab fee required. Instructor permission required. One 60-minute lesson per week and one performance class per week.

MUSC 1842  Pvt Appl I Perform: Brass  2.00 CR
Private music lessons designed for brass performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Fee required. One 60-minute lesson per week and one performance class per week.

MUSC 1843  Pvt Appl I Perform: String  2.00 CR
Private music lessons designed for string performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Fee required. One 60-minute lesson per week and one performance class per week.

MUSC 1844  Pvt Appl I Perform: Woodwind  2.00 CR
Private music lessons designed for woodwind performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Fee required. One 60-minute lesson per week and one performance class per week.

MUSC 1845  Pvt Appl I Perform: Guitar  2.00 CR
Private music lessons designed for guitar performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Fee required. One 60-minute lesson per week and one performance class per week.

MUSC 1846  Pvt Appl I Perform: Organ  2.00 CR
Private music lessons designed for organ performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Fee required. One 60-minute lesson per week and one performance class per week.

MUSC 2110  Music Theory III  3.00 CR
Designed for students with an emphasis in music. This course is the second year of music theory study. The course includes the study of chromatic harmony, 16th and 18th century counterpoint, 20th century compositional techniques, formal and harmonic analysis. Prerequisite: MUSC 1120. The series must be taken in sequence. 3 lecture hours per week.

MUSC 2120  Music Theory IV  3.00 CR
Designed for students with an emphasis in music. This course is the second year of music theory study. The course includes the study of chromatic harmony, 16th and 18th century counterpoint, 20th century compositional techniques, formal and harmonic analysis. Prerequisite: MUSC 2110. The series must be taken in sequence. 3 lecture hours per week.

MUSC 2130  Ear Training/Sight Singing III  1.00 CR
Designed for students with an emphasis in music. This course is the third in a series of four of ear training and sight singing study dealing with aural and sight singing skills paralleling the theoretical material of Music Theory. Simple keyboard skills necessary. Series must be taken in sequence, with each course prerequisite to the next. Prerequisite: MUSC 1140. Corequisite: MUSC 2110. 2 lab hours per week.
MUSC 2140 Ear Training/Sight Singing IV 1.00 CR
Designed for students with an emphasis in music. This course is the fourth in a series of four of ear training and sight singing study dealing with aural and sight singing skills paralleling the theoretical material of Music Theory. Simple keyboard skills necessary. Series must be taken in sequence, with each course prerequisite to the next. Prerequisite: MUSC 2130. Corequisite: MUSC 2120. 2 lab hours per week.

MUSC 2150 Group Piano Instruction III 1.00 CR
For music majors. Prepares students to pass the piano proficiency, which includes: piano technique, sight-reading, accompanying, improvisation, transposition, and performance skills. Students will be using electronic keyboards and will continue to learn about the advancements of technology and its effect on the music industry. Series to be taken in sequence, with each course being prerequisite to the next course. Prerequisite: MUSC 1160. 2 lab hours per week.

MUSC 2160 Group Piano Instruction IV 1.00 CR
For music majors. Prepares students to pass the piano proficiency, which includes: piano technique, sight-reading, accompanying, improvisation, transposition, and performance skills. Students will be using electronic keyboards and will continue to learn about the advancements of technology and its effect on the music industry. Series to be taken in sequence, with each course being prerequisite to the next course. Prerequisite: MUSC 2150. 2 lab hours per week.

MUSC 2240 So Utah Heritage Choir 1.00 CR
A large ensemble choral music experience designed primarily for members of the community interested in the performance of sacred choral music. The student will develop advanced concepts of good choral singing including balance, blend, intonation, tone, and interpretation while learning music from various styles, periods and geographical locations. Students will actively participate in regular rehearsals and public performances. Fulfills elective credits and may be repeated for credit. Attendance required. 3 ensemble hours per week.

MUSC 2250 Southwest Chorale 1.00 CR
A large ensemble choral music experience designed primarily for members of the community interested in musical enrichment. The Chorale frequently performs with the Southwest Symphony Orchestra. 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) with an emphasis on major choral and orchestral works. Students will actively participate in regular rehearsals and public performances. Fulfills elective credits and may be repeated for credit. Prerequisite: Audition for instructor. 2 ensemble hours per week.

MUSC 2260 Southwest Symphony Orchestra 1.00 CR
This class, a full symphony orchestra, is for community performers and college students with orchestral experience. The course includes many orchestral works from the various style periods including Baroque, Classic, Romantic and 20th Century. Concepts and musical style are taught through participation. Students in this ensemble should be accomplished on their instrument and studying privately. Previous experience is also a necessary qualification. The ensemble performs several times each year—symphonies, oratorios, concerts, overtures, etc. May be repeated for credit. Prerequisite: Concurrent enrollment in MUSC 1350 and audition for instructor. 3 ensemble hours per week.

MUSC 2350 Fundamentals of Conducting 2.00 CR
For students with an emphasis in music, and for 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, offset 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 be able to conduct choral and/or instrumental music. 2 lecture hours per week.

MUSC 2650 Piano Pedagogy I 2.00 CR
For music majors emphasizing piano instruction and piano teachers who wish to improve their craft. 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. This course is the first of two in a series. 2 lecture hours per week.

MUSC 2660 Piano Pedagogy II 2.00 CR
For music majors emphasizing piano instruction and piano teachers who wish to improve their craft. 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. This course is the second of two in a series. 2 lecture hours per week.

MUSC 2710 Theatre Orchestra 1.00 CR
This course is designed for students participating as musicians for the pit orchestra and supports the accompanying needs of the annual musical produced by the Theatre program. Student musicians work closely with their conductor in developing score dynamics, tempo and tone to accompany on-stage performances. 3 ensemble hours per week.

MUSC 2810 Priv Appl Mus Ed Maj II: Vocal 1.00 CR
Private vocal instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 1810. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 2811 Priv Appl Mus Ed Maj II: Piano 1.00 CR
Private piano instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 1811. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 2812 Priv Appl Mus Ed Maj II: Brass 1.00 CR
Private brass instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Prerequisite: MUSC 1812. Fee required. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 2813 Priv Appl Mus Ed Maj II: String 1.00 CR
Private string instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 1813. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 2814 Priv Appl MusEd Maj II: WWinds 1.00 CR
Private woodwind instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 1814. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 2815 Priv Appl Mus Ed MajII: Guitar 1.00 CR
Private guitar instruction designed for music majors. Courses may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 1815. Includes one 50-minute lesson and a one-hour performance class per week.

MUSC 2816 Priv Appl Mus Ed Maj II: Organ 1.00 CR
Private organ instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 1816. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 2821 Priv Appl Mus Ed MajII: Percuss 1.00 CR
Private percussion instruction designed for music majors. Course may be repeated
This seminar course provides a variable-credit context for theses purposes. As required, 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.

**MUSC 2992 Seminar in Music** 0.50 - 3.00 CR
For students seeking instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, 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.

**MUSC 2993 Seminar in Music** 0.50 - 3.00 CR
For students seeking instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, 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. Instructor permission required.

**MUSC 2994 Seminar in Music** 0.50 - 3.00 CR
For students seeking instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, 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. Instructor permission required.

**MUSC 2995 Seminar in Music** 0.50 - 3.00 CR
For students seeking instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, 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. Instructor permission required.

**MUSC 3210 Vocal Theatre Performance** 1.00 CR
This course is designed for students participating as vocal performers for the musicals produced by the Theatre program. Student vocalists and choir members work closely with their conductor in developing supporting and on-stage performances. 2 ensemble hours per week.

**MUSC 3220 Choral Methods** 2.00 CR
For students preparing to work with choral ensembles. This course is the study of the administration and teaching of choral music in secondary education. Instruction will include lecture, demonstration, in-class participation, written tests and as-
signments, and out-of-class projects. Upon completing this course, the student will have the necessary tools to organize, administer, and teach a choral ensemble. 2 lecture hours per week.

MUSC 3221 Choral Literature 2.00 CR
A study of choral music from Antiquity through 20th Century, both sacred and secular, and studies of World Music in relationship to the choral genre will be studied during the semester. Methods involving choral instruction to the public schools and other settings, including selecting appropriate music, and conducting of vocal groups, will be an area of focus during the course. Study of current composers, and appreciation of their works, will be emphasized, as well as arranging for non-traditional choirs. 2 lecture hours per week.

MUSC 3222 Choral Conducting 2.00 CR
In depth study and development of conducting practices specific to choral music within the five major musical periods will be the main focus of the course, including a three-part analysis of a student selected work. Unaccompanied, keyboard accompanied, and orchestral/choral works will be included in the list of studied repertoire including world musics. 2 lecture hours per week.

MUSC 3250 Concert Choir 1.00 CR
A large ensemble, choral music experience designed for the general student interested in musical enrichment as well as for students with an emphasis in music. 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. Fullfills elective credits and may be repeated for credit. 4 ensemble hours per week.

MUSC 3260 Men's Chorus 1.00 CR
This selected chorus is designed for male singers with advanced choral music experience. The student will develop singing skills through rehearsals and performances of appropriate musical literature from Medieval to vocal jazz. Prerequisite: MUSC 1260. 3 ensemble hours per week.

MUSC 3270 Chamber Singers 1.00 CR
A small ensemble choral music experience designed for singers of a more advanced ability than MUSC 1270. The student will develop advanced concepts of good choral singing including balance, blend, intonation, tone and interpretation through appropriate small ensemble literature from the Renaissance to the twentieth-century (classical and popular styles). Students will actively participate in regular rehearsals and public performances by the Chamber Singers. 4 ensemble hours per week.

MUSC 3280 Women's Chorus 1.00 CR
This selected chorus is designed for female singers with advanced choral music experience. The student will develop singing skills through rehearsals and performances of appropriate musical literature from Medieval to vocal jazz. Fullfills elective credits and may be repeated for credit. Prerequisite: MUSC 1280. 3 ensemble hours per week.

MUSC 3290 The Vocal Jazz Project 1.00 CR
A small choral ensemble of advanced singers dedicated to the study and performance of vocal jazz literature. The student will develop 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. 2 ensemble hours per week.

MUSC 3310 Symphony Band 1.00 CR
This course is a performing ensemble for all interested musicians with instrumental or band experience in high school as well as for students with an emphasis in music. This course is a participation type class and provides the student experience in a large ensemble where they are able to practice their instrument 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. Course may be repeated for credit. Prerequisite: MUSC 1310. No auditions required. 4 ensemble hours per week.

MUSC 3330 Jazz Ensemble 1.00 CR
This course is for the instrumental musician with an interest or emphasis in the study and performance of jazz music. Students in this ensemble should have some previous experience in this medium as well as have a basic understanding of improvisation. Exposes the student to various styles of music including swing, Latin, rock and ballads through the medium of the big band (5 saxes, 5 trumpets, 5 trombones, piano, bass drums, guitar). Course of study includes sight reading, improvisation and performance. May be repeated for credit. Pre-requisite: MUSC 1330. Co-requisite: Concurrent enrollment in MUSC 1310 or 3310, Symphony Band. Audition may be necessary. 4 ensemble hours per week.

MUSC 3350 Symphony Orchestra 1.00 CR
The symphony orchestra is a performing ensemble for all interested musicians with instrumental orchestra and/or band experience in high school as well as for music majors. Symphony Orchestra includes winds, brass, strings, and percussion. This class focuses on the symphonic literature of the 16th, 17th, 18th, 19th, and 20th century composers. Students will develop sight reading rehearsal, and public performance skills as well as a knowledge and appreciation for the repertoire. Course may be repeated for credit. Prerequisite: MUSC 1350. 6 ensemble hours per week.

MUSC 3380 Instrumental Conducting 2.00 CR
For students with an emphasis in music, and for music majors preparing for a career in teaching. Covers aspects of conducting instrumental groups. Topics include: gaining independence of hands, uncommon meters, use of imagery, score preparation including reduced and full scores, basic understanding of transposition. 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 instrumental ensembles. Students who successfully complete this course will be able to conduct instrumental music. Prerequisite: MUSC 2350. 2 lecture hours per week.

MUSC 3400 Music Composition 2.00 CR
This course is designed for students to improve and refine music writing skills within the Western Art Music tradition. In addition to writing for weekly lessons, students may be given additional listening and score study. Students are required to attend weekly seminars where topics in modern composition are discussed. Prerequisite: MUSC 2110. 1 individual hour and 1 lab hour per week.

MUSC 3540 Form and Analysis 3.00 CR
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. 3 lecture hours per week.

MUSC 3630 Music History and Lit I 3.00 CR
A survey of western music from Antiquity through Baroque periods including world music. In depth studies of composers, styles, genres, including visual art and social influences, will be the basic structure of the course. Reinforcement of music theory, aural skills, and pedagogy presented in other music major courses will be part of the Music History instruction. 3 lecture hours per week.

MUSC 3640 Music History and Lit II 3.00 CR
A survey of western music from Classical through 20th Century periods including world music. In depth studies of composers, styles, genres, including visual art and social influences, will be the basic structure of the course. Reinforcement of music theory, aural skills, and pedagogy presented in other music major courses will be part of the Music History instruction. 3 lecture hours per week.

MUSC 3801 Pri Appl II Non-Mus Maj:Vocal 1.00 CR
Private music lessons designed for the general education student seeking to increase skills in vocal performance either to satisfy immediate goals or to explore the possibilities of majoring in music. Course may be repeated for credit. Lab fees required. Prerequisite: MUSC 1801. 1 individual hour per week.

MUSC 3802 Pri Appl II Non-Mus Maj:Piano 1.00 CR
Private music lessons designed for the general education student seeking to increase skills in piano performance either to satisfy immediate goals or to explore the possibilities of majoring in music. Course may be repeated for credit. Lab fees required. Prerequisite: MUSC 1802. 1 individual hour per week.
### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>MUSC 3803</td>
<td>Priv Appl II Non-Mus Maj:Brass</td>
<td>1.00 CR</td>
<td>Private music lessons designed for the general education student seeking to increase skills in brass performance either to satisfy immediate goals or to explore the possibilities of majoring in music. Course may be repeated for credit. Lab fees required. Prerequisite: MUSC 1803. 1 individual hour per week.</td>
</tr>
<tr>
<td>MUSC 3804</td>
<td>Priv Appl II Non-Mus Maj:String</td>
<td>1.00 CR</td>
<td>Private string lessons on violin, viola, cello, or bass for non-music junior and senior students. Students receive 12 30-minute lessons. Course may be repeated for credit. Prerequisite: MUSC 1804. 4 semesters. Lab fee required.</td>
</tr>
<tr>
<td>MUSC 3805</td>
<td>Priv Appl II Non-Mus Maj:Wind</td>
<td>1.00 CR</td>
<td>Private music lessons designed for the general education student seeking to increase skills in woodwind performance either to satisfy immediate goals or to explore the possibilities of majoring in music. Course may be repeated for credit. Lab fees required. Prerequisite: MUSC 1805. 1 individual hour per week.</td>
</tr>
<tr>
<td>MUSC 3806</td>
<td>Priv Appl II Non-Mus Maj:Guitar</td>
<td>1.00 CR</td>
<td>Private music lessons designed for the general education student seeking to increase skills in guitar performance either to satisfy immediate goals or to explore the possibilities of majoring in music. Course may be repeated for credit. Lab fees required. Prerequisite: MUSC 1806. 1 individual hour per week.</td>
</tr>
<tr>
<td>MUSC 3807</td>
<td>Priv Appl II Non-Mus Maj:Organ</td>
<td>1.00 CR</td>
<td>Private music lessons designed for the general education student seeking to increase skills in organ performance either to satisfy immediate goals or to explore the possibilities of majoring in music. Course may be repeated for credit. Lab fees required. Prerequisite: MUSC 1807. 1 individual hour per week.</td>
</tr>
<tr>
<td>MUSC 3808</td>
<td>Priv Appl II Non-Mus Maj:Percus</td>
<td>1.00 CR</td>
<td>Private music lessons designed for the general education student seeking to increase skills in percussion performance either to satisfy immediate goals or to explore the possibilities of majoring in music. Course may be repeated for credit. Lab fees required. Prerequisite: MUSC 1808. 1 individual hour per week.</td>
</tr>
<tr>
<td>MUSC 3810</td>
<td>Priv Appl Mus Ed Maj III:Vocal</td>
<td>1.00 CR</td>
<td>Private vocal instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 2810. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.</td>
</tr>
<tr>
<td>MUSC 3811</td>
<td>Priv Appl Mus Ed Maj III:Piano</td>
<td>1.00 CR</td>
<td>Private piano instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 2811. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.</td>
</tr>
<tr>
<td>MUSC 3812</td>
<td>Priv Appl Mus Ed Maj III:Brass</td>
<td>1.00 CR</td>
<td>Private brass instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 2812. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.</td>
</tr>
<tr>
<td>MUSC 3813</td>
<td>Priv Appl Mus Ed Maj III:String</td>
<td>1.00 CR</td>
<td>Private string instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 2813. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.</td>
</tr>
<tr>
<td>MUSC 3814</td>
<td>Priv Appl Mus Ed Maj III:Wind</td>
<td>1.00 CR</td>
<td>Private woodwind instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 2814. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.</td>
</tr>
<tr>
<td>MUSC 3815</td>
<td>Priv Appl Mus Ed Maj III:Guitar</td>
<td>1.00 CR</td>
<td>Private guitar instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 2815. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.</td>
</tr>
<tr>
<td>MUSC 3816</td>
<td>Priv Appl Mus Ed Maj III:Organ</td>
<td>1.00 CR</td>
<td>Private organ instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 2816. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.</td>
</tr>
<tr>
<td>MUSC 3821</td>
<td>Priv Appl Mus Ed Maj III:Percus</td>
<td>1.00 CR</td>
<td>Private percussion instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 2821. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.</td>
</tr>
<tr>
<td>MUSC 3840</td>
<td>Priv Appl III Perform: Vocal</td>
<td>2.00 CR</td>
<td>Private music lessons designed for vocal performance students. Course may be repeated for a maximum of 2 credits. Participation in departmental recitals required. Lab fee required. Prerequisite: MUSC 2840. Instructor permission required. One 60-minute lesson per week and one performance class per week.</td>
</tr>
<tr>
<td>MUSC 3841</td>
<td>Pvt Appl III Mus Perform: Piano</td>
<td>2.00 CR</td>
<td>Private music lessons designed for piano performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Lab fee required. Prerequisite: MUSC 2841. One 60-minute lesson and one performance class per week.</td>
</tr>
<tr>
<td>MUSC 3842</td>
<td>Pvt Appl III Perform: Brass</td>
<td>2.00 CR</td>
<td>Private music lessons designed for brass performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Fee required. Prerequisite: MUSC 2842. One 60-minute lesson per week and one performance class per week.</td>
</tr>
<tr>
<td>MUSC 3843</td>
<td>Pvt Appl III Perform: String</td>
<td>2.00 CR</td>
<td>Private music lessons designed for string performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Fee required. Prerequisite: MUSC 2843. One 60-minute lesson per week and one performance class per week.</td>
</tr>
<tr>
<td>MUSC 3844</td>
<td>Pvt Appl III Perform: Woodwind</td>
<td>2.00 CR</td>
<td>Private music lessons designed for woodwind performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Fee required. Prerequisite: MUSC 2844. One 60-minute lesson per week and one performance class per week.</td>
</tr>
<tr>
<td>MUSC 3845</td>
<td>Pvt Appl III Perform: Guitar</td>
<td>2.00 CR</td>
<td>Private music lessons designed for guitar performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Fee required. Prerequisite: MUSC 2845. One 60-minute lesson per week and one performance class per week.</td>
</tr>
<tr>
<td>MUSC 3846</td>
<td>Pvt Appl III Perform: Organ</td>
<td>2.00 CR</td>
<td>Private music lessons designed for organ performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Fee required. Prerequisite: MUSC 2846. One 60-minute lesson per week and one performance class per week.</td>
</tr>
<tr>
<td>MUSC 3851</td>
<td>Pvt Appl III Perform: Percuss</td>
<td>2.00 CR</td>
<td>Private music lessons designed for percussion performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Fee required. Prerequisite: MUSC 2851. One 60-minute lesson per week and one performance class per week.</td>
</tr>
<tr>
<td>MUSC 3861</td>
<td>Diction for Singers I</td>
<td>2.00 CR</td>
<td>For vocal students interested in learning the International Phonetic Alphabet and the fundamentals of the proper pronunciation of English and Italian diction as it...</td>
</tr>
</tbody>
</table>
applies to singing. Students will learn via written and verbal assignments as well as singing in class. This course prepares students for the proper performance of English and Italian vocal literature as well as laying the foundation for future language study related to singing. This class is a prerequisite for MUSC 3862. 2 lecture hours per week.

MUSC 3862 Diction for Singers II 2.00 CR
For vocal students interested in learning 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 students for the proper performance of French and German vocal literature. Prerequisite: MUSC 3861. 2 lecture hours per week.

MUSC 3890 Junior Recital 1.00 CR
This course is required for Music Performance majors. Applied instruction in preparation for and public performance of a 30 minute recital. Includes musical and extra-musical preparation. Successful completion should prepare students to perform publicly in a solo capacity. Prerequisite: Piano proficiency exam (exam or course, see department advisor for details), and a junior-level private music course (MUSC 3840-3851). Instructor permission required. 1 individual hour per week.

MUSC 4430 String Chamber Music 1.00 CR
This course offers study in string instrumental chamber ensembles such as string trios, quartets, quintets, and sextets. Students will learn basic repertoire and improve small ensemble performance techniques and rehearsal skills. This course is for those who are enrolled in private string lessons as well as Symphony Orchestra. Groups are required to meet two hours each week: one hour for rehearsal as an ensemble and one hour with faculty for coaching/lesson.

MUSC 4431 Woodwind Chamber Music 1.00 CR
For woodwind players seeking a small ensemble performance experience. Stresses the elements of good performance preparation: intonation, balance, blend, and tone production in a constant effort to increase musicality. Wide range of repertoire surveyed. Classes are spent in rehearsal and development for performances. Students who successfully complete this course will gain a greater awareness of small ensemble rehearsal techniques and performance. May be repeated for credit. Instructor permission required. 2 ensemble hours per week.

MUSC 4432 Brass Chamber Music 1.00 CR
For brass players seeking a small ensemble performance experience. Stresses the elements of good performance preparation: intonation, balance, blend, and tone production in a constant effort to increase musicality. Wide range of repertoire surveyed. Classes are spent in rehearsal and development for performances. Students who successfully complete this course will gain a greater awareness of small ensemble rehearsal techniques and performance. May be repeated for credit. Instructor permission required. 2 ensemble hours per week.

MUSC 4433 Piano Ensemble & Accompanying 1.00 CR
For pianists seeking a small ensemble performance experience. Accompanying skills in vocal and instrumental literature. Ensemble music for one/two pianos and four/eight hands. Students will learn basic repertoire, improve small ensemble performance, rehearsal skills and sight reading skills. Classes are spent in rehearsal and development for performances. Students who successfully complete this course will gain a greater awareness of small ensemble rehearsal techniques and performance. May be repeated for credit. Instructor permission required.

MUSC 4485 Percussion Ensemble 1.00 CR
For Music majors and other students with an interest in performing percussion music. Stresses the elements of good performance preparation: including techniques unique to percussion instruments in a constant effort to increase musicality. Wide range of repertoire surveyed. Classes are spent in rehearsal and development for performances. Students who successfully complete this course will gain a greater awareness of small ensemble rehearsal techniques and performances. Prerequisite: Instructor permission required. May be repeated for credit. 2 ensemble hours per week.

MUSC 4538 Orchestration 3.00 CR
The study of specific characteristics of all orchestral instruments in various combinations ranging from small ensembles to full orchestra. 3 lecture hours per week.

MUSC 4560 Counterpoint and Analysis 3.00 CR
Introduction to the study of structural/formal analytical techniques of the 18th and 19th centuries. Writing and analysis of 18th century counterpoint through fugue. Prerequisite: MUSC 3540. 3 lecture hours per week.

MUSC 4650 Pedagogy Practicum I 2.00 CR
Application of knowledge and skills gained in pedagogy courses, which includes teaching rhythm, technique, sight-reading, harmonization, improvisation, transposition, music technology, practice skills, private and group lesson pedagogies, and learning styles. Students will prepare lesson plans, document progress, and evaluate their teaching assignments for elementary level piano students. Prerequisites: MUSC 2650 and MUSC 2660. 2 lecture hours per week.

MUSC 4660 Pedagogy Practicum II 2.00 CR
Continuation of MUSC 4650. Application of knowledge and skills gained in pedagogy courses, which includes teaching rhythm, technique, sight-reading, harmonization, improvisation, transposition, music technology, practice skills, private and group lesson pedagogies, and learning styles. Students will prepare lesson plans, document progress, and evaluate their teaching assignments for intermediate level piano students. Prerequisite: MUSC 4650. 2 lecture hours per week.

MUSC 4700 Choral Music Methods 3.00 CR
This course is required for Choral Music Education majors. Objectives include methods of organization, administration, and instruction relative to the instrumental music program of grades six through twelve. Uses small-group work, reflective essays, and observation. Completers will be qualified to teach music in grades 6-12. Instructor permission required. 3 lecture hours per week.

MUSC 4710 Instrumental Music Methods 3.00 CR
This course is required for Instrumental Music Education majors. Objectives include methods of organization, administration, and instruction relative to the instrumental music program of grades six through twelve. Uses small-group work, reflective essays, and observation. Completers will be qualified to teach music in grades 6-12. Instructor permission required. 3 lecture hours per week.

MUSC 4810 Priv Appl Mus Ed Maj IV: Vocal 1.00 CR
Private vocal instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 3810. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 4811 Priv Appl Mus Ed Maj IV: Piano 1.00 CR
Private piano instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 3811. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 4812 Priv Appl Mus Ed Maj IV: Brass 1.00 CR
Private brass instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 3812. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 4813 Priv Appl Mus Ed Maj IV: Strings 1.00 CR
Private string instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 3813. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 4814 Priv Appl Mus Ed Maj IV: WWind 1.00 CR
Private woodwind instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 3814. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

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MUSC 4815 Priv Appl Mus Ed Maj IV: Guitar 1.00 CR
Private guitar instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 3815. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 4816 Priv Appl Mus Ed Maj IV: Organ 1.00 CR
Private organ instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 3816. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 4821 Priv Appl Mus Ed Maj IV: Percuss 1.00 CR
Private percussion instruction designed for music majors. Course may be repeated once for a maximum of 2 credits. Fee required. Prerequisite: MUSC 3821. Includes a 50-minute lesson and a one-hour performance class per week. Students are required to perform at one convocation each semester. A final jury examination is required.

MUSC 4830 String Pedagogy 2.00 CR
Fills requirements for students pursuing a bachelor degree in music on a string instrument as well as elective credits for music majors. Topics covered in this course include influential string teachers and their philosophies up to and including current methodologies. 2 lecture hours per week.

MUSC 4832 String Literature 2.00 CR
Fills requirement for students pursuing a bachelor degree in music on a string instrument as well as elective credits for music majors. This course covers the basic string repertoire of violin, viola, cello, and bass including ways to incorporate music technology as a means of accessing the string repertoire. 2 lecture hours per week.

MUSC 4840 Priv Appl IV Perform: Vocal 2.00 CR
Private music lessons designed for vocal performance students. Course may be repeated for a maximum of 2 credits. Participation in departmental recitals required. Lab fee required. Prerequisite: MUSC 3840. Instructor permission required. One 60-minute lesson per week and one performance class per week.

MUSC 4841 Priv Appl IV Perform: Piano 2.00 CR
Private music lessons designed for piano performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Lab fee required. Prerequisite: MUSC 3841. One 60-minute lesson and one performance class per week.

MUSC 4842 Priv Appl IV Perform: Brass 2.00 CR
Private music lessons designed for brass performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Fee required. Prerequisite: MUSC 3842. One 60-minute lesson per week and one performance class per week.

MUSC 4843 Priv Appl IV Perform: String 2.00 CR
Private music lessons designed for string performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Fee required. Prerequisite: MUSC 3843. One 60-minute lesson per week and one performance class per week.

MUSC 4844 Priv Appl IV Perform: Woodwind 2.00 CR
Private music lessons designed for woodwind performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Fee required. Prerequisite: MUSC 3844. One 60-minute lesson per week and one performance class per week.

MUSC 4845 Priv Appl IV Perform: Guitar 2.00 CR
Private music lessons designed for guitar performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Fee required. Prerequisite: MUSC 3845. One 60-minute lesson per week and one performance class per week.

MUSC 4846 Priv Appl IV Perform: Organ 2.00 CR
Private music lessons designed for organ performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Fee required. Prerequisite: MUSC 3846. One 60-minute lesson per week and one performance class per week.

MUSC 4851 Priv Appl IV Perform: Percussion 2.00 CR
Private music lessons designed for percussion performance students. Course may be repeated for a maximum of 4 credits. Participation in departmental recitals required. Fee required. Prerequisite: MUSC 3851. One 60-minute lesson per week and one performance class per week.

MUSC 4861 Vocal Pedagogy 2.00 CR
For students interested in learning about the pedagogy of singing. This course is a study of the physics of singing, vocal anatomy and physiology and their application to singing as well as their implications for teaching singing. Course instruction will consist of lecture, conventional and technology based demonstration, research assignments, written tests, and practical applications in class. This course equips students to better understand their own voices and how to teach others the art of singing. 2 lecture hours per week.

MUSC 4862 Vocal Literature 2.00 CR
For students interested in learning about classical solo song repertoire. This course is a survey of western art music’s solo vocal literature. Course instruction will consist of lecture, demonstration, research assignments, written tests, and oral reports in class. Course completion will enable students to make educated and appropriate solo literature selections. 2 lecture hours per week.

MUSC 4865 Piano Literature I 2.00 CR
History of piano literature and performance practices from the Baroque period to the Classical period. 2 lecture hours per week.

MUSC 4866 Piano Literature II 2.00 CR
History of piano literature and performance practices from the Romantic period to the present. 2 lecture hours per week.

MUSC 4890 Senior Recital 1.00 CR
This course is required for Music Performance Majors. Applied instruction in preparation for and public performance of a 30 minute recital. Includes musical and extra-musical preparation. Successful completion should prepare students to perform publicly in a solo capacity. Prerequisite: Piano proficiency exam (exam or courses, see department advisor for details), and a junior-level private music course (MUSC 3840-3851). Instructor permission required. 1 individual hour per week.

MUSC 4892 Independent Study 1.00 - 3.00 CR
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. Instructor permission is required. 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. Can be repeated for credit. Variable credit hours per semester.

NUTRITION AND FOOD SCIENCE (NFS)

NFS 1000 Breadmaking 1.00 CR
This course is open to students and community members who are 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 trouble shoot problems and prepare a variety of appealing breads. Lab required. 1 lecture and 2 lab hours per week.

NFS 1005 Breadmaking LAB 0.00 CR
A laboratory course to be taken concurrently with NFS 1000. Fee required. 2 lab hours per week.
NFS 1020  Sci Founds of Nutrition *LS  3.00 CR
This course is open to all students who eat and 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 Food, Nutrition, and Family Consumer Science, Child Development, Nursing, or other health 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 using software provided by the test. 3 lecture hours per week.

NFS 1030  Lifespan Fitness & Nutrition  2.00 CR
This course is open to all students with an interest in learning appropriate fitness and nutrition practices over the lifespan. May be 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. 2 lecture hours per week.

NFS 1240  Food Prep Skills & Techniques  3.00 CR
Food for Life is open to all students with an interest in food preparation techniques and healthful nutrition practices for the lifespan. 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. Students completing this class should be able to use and apply a variety of food preparation and meal management techniques and nutrition concepts. Lab required. 2 lecture hours and 2 lab hours per week.

NFS 1245  Food Prep/Skills/Tech LAB  0.00 CR
A lab course to be taken concurrently with NFS 1240. Fee required. 2 lab hours per week.

NFS 2020  Nutrition and Food Science  3.00 CR
For students studying nutrition, health sciences, or health professionals who work in both individual and community health programs. 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 covered and used. Course taught using lecture, labs, activities, guest lecturers and student projects. Prerequisite: NFS 1020. 3 lecture hours per week.

NFS 2120  Infant and Child Nutrition  3.00 CR
For students studying Early Childhood and Elementary Education, Nutrition, or others to plan to have or work with children. Discusses nutrient needs and strategies for meeting the 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. Prepares students to work in day care and preschool settings and to teach nutrition to children. Satisfies the requirement for Child Development Concentration towards early childhood teaching endorsement. Prerequisite: NFS 1020. 3 lecture hours per week.

NFS 2990  Seminar Nutrition Food Wellness  0.50 – 3.00 CR
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.

NURSING (NURS)

NURS 1001  1st Yr Exp - Intro to Nursing  1.00 CR
NURS 1001 is an orientation course created to help students succeed in the nursing major. It is also designed to help new freshman and returning students to make a successful transition to being a college student. The primary objective of this course is to provide you with the resources you will need to succeed in your college career, particularly in your nursing courses. 2 lecture hours per week.

NURS 1005  Certified Nursing Assistant  4.00 CR
Provides students in the knowledge, skills, and responsibilities required for certification as a nursing assistant by the state of Utah. Fee required. 3 lecture hours and various lab/clinical hours required.

NURS 1006  Nursing Assistant Lab  0.00 CR
Focus on skills necessary for nursing assistant practice in a laboratory environment. Part of the minimum 80 hours State requirement.

NURS 1007  Nursing Assistant Clinical  0.00 CR
Provides hands on clinical training in the long term care setting to reinforce nursing assistant skills learned in classroom and laboratory. A minimum of 24 clinical hours required.

NURS 1100  Medical/Surgical Nursing I  9.00 CR
Fundamental medical/surgical nursing concepts are introduced. Emphasis on utilization of the nursing process to meet the practical nursing care requirements of clients. Human relations training is embedded within this course as human needs/interpersonal communication are constants in the nurse/client relationship. Prerequisite: Acceptance into the practical nursing program. Corequisites: NURS 1101, and NURS 1105. Course fee required. 4.8 lecture hours per week.

NURS 1101  Medical/Surgical Nursing I Lab  0.00 CR
Focus on technical nursing skills practiced in a laboratory setting. Corequisites: NURS 1100, NURS 1105.

NURS 1105  Medical/Surgical Nursing I Clin  0.00 CR
Clinical experience in simulation laboratory. Focus on developing care plan and learning nursing process while caring for the older adult client. Corequisites: NURS 1100, NURS 1101.

NURS 1120  Nursing Pharmacology I  1.00 CR
Provides an introduction to pharmacology for nurses. Includes basic pharmacological principles, medication calculation, drug classifications, geriatric pharmacology, medication administration in the long term care setting, nursing process, and patient teaching. Prerequisite: Acceptance into the PN Program. Corequisites: NURS 1100, NURS 1101, NURS 1105. 1 lecture hour per week.

NURS 1200  Maternal/Newborn Nursing I  2.00 CR
Focus on meeting basic human needs of the family and newborn throughout the childbearing cycle. Increased development of nursing skills is based on an understanding of principles and facts relative to nursing care during and immediately after childbirth. Focus on the normal pregnancy, labor/delivery, newborn, and postpartum clients. The course work encourages the development of critical thinking, therapeutic communication, technical skills, leadership management skills, effective time management, professional behavior and caring. Prerequisites: NURS 1100 and acceptance into the practical nursing program. Corequisites: NURS 1010, NURS 1201, NURS 1250, NURS 1260, NURS 1300. 1.3 lecture hours per week.

NURS 1201  Maternal/Newborn Nursing I Lab  0.00 CR
Focus on skills necessary to care for postpartum and newborn clients. Corequisites: NURS 1200 and NURS 1205.

NURS 1205  Maternal/Newborn Nursing I Clin  0.00 CR
Course Descriptions

NURS 1220 Nursing Pharmacology II 1.00 CR
Builds on concepts and principles in NURS 1120. Includes an indepth and comprehensive review of drug classifications (ANS, neurologic, neuromuscular, psychiatric, anti-inflammatory, anti-infective, respiratory, cardiovascular, gastrointestinal, and endocrine agents) as well as pediatric pharmacology and medication administration in the acute care setting. Prerequisites: NURS 1100, NURS 1101, NURS 1105, NURS 1120. Corequisites: NURS 1200, NURS 1250, NURS 1260, and NURS 1300. 1 lecture hour per week.

NURS 1250 Pediatric Nursing I 2.00 CR
Prepares student for entry into practice as a Licensed Practical Nurse through clinical practice. Prerequisite: NURS 1100. Corequisites: NURS 1010, NURS 1200, NURS 1251, NURS 1255, NURS 1260 and NURS 1300.

NURS 1251 Pediatric Nursing I Lab 0.00 CR
Focus on skills necessary in the nursing care of pediatric clients and families. Participation in simulation experience included. Corequisites: NURS 1250, NURS 1255.

NURS 1255 Pediatric Nursing I Clinical 0.00 CR
Clinical experience in community and limited acute care settings with children and families. Corequisites: NURS 1250, NURS 1251.

NURS 1260 Psych Nursing I 1.50 CR
Explores simple needs and behaviors of psychiatric clients. Examines the roles and functions of the psychiatric nurse. Encourages the development of critical thinking, therapeutic communication, technical skills, leadership/management skills, effective time management, professional behavior and caring. Theories, medications, diagnostic criteria, community resources, working with other health care disciplines/professionals is included. Prerequisites: NURS 1100, Corequisites: NURS 1010, NURS 1200, NURS 1250, NURS 1260, NURS 1300. 1 lecture hour per week.

NURS 1265 Psychiatric Nursing I Clinical 0.00 CR
Focus is on provision of nursing care for psychiatric clients in the community. This is the clinical portion of NURS 1260. Corequisite: NURS 1260.

NURS 1300 Entry into Practice I 2.50 CR
Prepares student for entry into practice as a Licensed Practical Nurse through clinical practice. Course fee required. Prerequisite: NURS 1100. Corequisites: NURS 1200, NURS 1250, NURS 1260, NURS 1305.

NURS 1305 Entry into Practice I Clinical 0.00 CR
Clinical experience with the adult client in acute medical/surgical settings. Corequisite: NURS 1300.

NURS 1800 Nursing Work Experience 1.00 - 3.00 CR
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. Fall section.

NURS 1810 Nursing Work Experience 1.00 - 3.00 CR
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. Spring section.

NURS 1820 Nursing Work Experience 1.00 - 3.00 CR
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. Summer section.

NURS 2100 Medical/Surgical Nursing II 8.50 CR
Prepares the student to function within the scope of practice of the registered nurse. Emphasis on more complex physiological and psychosocial needs of adult patients using the nursing process. It encourages the development of critical thinking, therapeutic communication, technical skills, leadership/management skills, effective time management, professional behavior and caring. Complex integrated care is provided for medical/surgical patients in the RN level of nursing. Human relations training is embedded within this course as human needs/therapeutic communication are constants in the nurse/client relationship. Course fee required. Prerequisite: Acceptance into the associate degree nursing program. Corequisites: NURS 2101, NURS 2105. 5 lecture hours per week.

NURS 2101 Medical Surg. Nursing II Lab 0.00 CR
Focuses on additional skills performed by the registered nurse. Builds on NURS 1100. Corequisites: NURS 2100, NURS 2105.

NURS 2105 Medical Surg Nursing II Clinical 0.00 CR
Clinical experience includes medical/surgical acute care units and specialty clinical areas. Corequisites: NURS 2100, NURS 2101.

NURS 2120 Nursing Pharmacology III 1.00 CR
The final in a series of 3 nursing pharmacology courses. Includes medication calculation of intravenous agents; intravenous medication therapy; fluid and electrolyte replacement; emergency agents for cardiac disorders, neurological disorders, poisonings, shock, hypertensive crisis, and pulmonary edema; and medication administration in the critical care setting. Prerequisite: Completion of the PN Program. Corequisites: NURS 2100, NURS 2101, and NURS 2105. 1 lecture hour per week.

NURS 2200 Maternal/Newborn Nursing II 1.50 CR
Focus on meeting complex needs of newborn and family throughout the childbearing cycle. Emphasis on roles of registered nurse in caring for high risk adult/newborn patients during antepartum, labor/delivery, and postpartum periods, and facilitation and understanding of diagnostic testing. Encourages development of critical thinking, therapeutic communication, technical skills, leadership/management skills, effective time management, professional behavior and caring. Prerequisite: NURS 2100. Corequisites: NURS 2250, NURS 2260, and NURS 2300. 1.5 lecture hours per week.

NURS 2250 Pediatric Nursing II 1.00 CR
Focus 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. Professional behavior and caring are emphasized. The role of the registered nurse is taught 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. Builds upon concepts learned in NURS 1250. Prerequisite: NURS 2100. Corequisites: NURS 2220, NURS 2260 and NURS 2300. 1 lecture hour per week.

NURS 2260 Psychiatric Nursing II 1.50 CR
Emphasis is on understanding psychiatric disorders, diagnostic criteria, nursing interventions and other disciplines in care planning for the psychiatric client. Builds upon concepts learned in NURS 1260. Prerequisite: NURS 2100. Corequisite: NURS 2220, NURS 2250, NURS 2300, NURS 2265.

NURS 2265 Psychiatric Nurs II Clinical 0.00 CR
Emphasis is on understanding psychiatric disorders, diagnostic criteria, nursing interventions in care planning for the psychiatric client. Corequisite: NURS 2260. 16 clinical hours per semester.

NURS 2300 Entry into Practice II 3.50 CR
Theory designed to facilitate student transition into the role of registered nurse. Focus on synthesis and application of advanced nursing knowledge and skills. Prerequisite: NURS 2100. Corequisites: NURS 2220, NURS 2250, and NURS 2260. 1 lecture hour per week.
NURS 2305 Entry Into Practice II Clin 0.00 CR
Clinical preceptorship designed to facilitate student transition into role of registered nurse. The care of patients with complex health care needs are managed with other health care practitioners. Corequisite: NURS 2300. 112 clinical hours per semester.

NURS 3100 Professional Nursing Roles/ONL 2.00 CR
This course focuses on the transition to professional nursing role and responsibilities and explores the differences in ADN and BSN education and practice levels. The course explores the roles of the BSN nurse in the health care environment that includes: nurse educator, nurse leader, case manager, and community health nursing. Prerequisite: Acceptance into the BSN program.

NURS 3200 Health Assessment/ONLINE 3.00 CR
This course focuses on the development of interviewing and physical assessment skills throughout the lifespan utilizing a holistic approach. The student will use critical thinking skills to evaluate assessment findings and differentiate between normal and abnormal variations. Prerequisites: NURS 3100 (can be concurrently enrolled) and BIOL 4400 and acceptance into the BSN program.

NURS 3300 Transcultural Nursing/ONLINE 3.00 CR
This course will prepare professional nursing students to provide culturally sensitive and culturally competent care to individuals, families, and communities. The course will emphasize the importance of understanding cultural diversity in order to promote appropriate health promotion, disease intervention activities, and teaching strategies. The course will include self-evaluation, including biases and prejudices about other cultures and ethnic groups. Prerequisite: NURS 3100 (can be concurrently enrolled) and acceptance into the BSN program.

NURS 3400 Nursing Informatics/ONLINE 3.00 CR
This course provides an introduction of informatics to nursing practice, education, research, and administration. The course explores how informatics systems can be utilized to assist in providing more efficient and effective client care. Hardware, software, databases, new developments and associated legal and ethical issues are addressed. Prerequisites: NURS 3100 and acceptance into the BSN program.

NURS 3600 Nursing Research/ONLINE 3.00 CR
This course will introduce quantitative and qualitative research concepts, methodology and techniques. The course will address the scientific approach, preliminary steps in research design, measurement and data collection, analysis of data, and critiquing. This course will emphasize the relationship between research and the practice of professional nursing. Prerequisites: NURS 3100, MATH 1040 or STAT 2040 and acceptance into the BSN program.

NURS 3700 Gerontological Nursing 2.00 CR
This online course focuses on nursing care of the older adult. Students will be exposed 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; pathological disease processes; cognitive and psychological changes; end-of-life care; and environments of care for the older adult. Prerequisite: Acceptance into the BSN program. Pre or Corequisite: NURS 3100.

NURS 4020 Community Health Nursing/ONL 6.00 CR
This course prepares the baccalaureate student to function within the scope of professional nursing practice in the care of individuals, families, and groups in the community. In this course emphasis is placed on family assessment, community assessment, health promotion, health maintenance, and disease prevention. The past, present and future community service trends are explored and analyzed. Purchase of electronic access is required to navigate this online course. Prerequisites: NURS 3100, NURS 3200, BIOL 4400 and acceptance into the BSN program. Corequisite: NURS 4025. 3 lecture hours per week.

NURS 4025 Community Health Nursing 0.00 CR
This is the clinical portion of NURS 4020. Corequisite: NURS 4020. 9 clinical hours per week.

NURS 4030 Nursing Policy and Ethics/ONL 3.00 CR
This course addresses policy development, political influences and power, and nursing’s involvement in the policy-making process. Legislation past and present is examined and analyzed. Ethical theories, frameworks, and the process of ethical inquiry are explored as a basis for professional nursing practice, education, research, and decision-making. Prerequisites: NURS 3100 (can be concurrently enrolled) and acceptance into the BSN program.

NURS 4040 Nursing Leadership Mgmt/ONLINE 5.00 CR
This course explores the role of the professional nurse as a leader and manager of patient care. Students will explore strategies, processes and techniques of the nurse leader and manager. Theories and principles of leadership and management and their application to the professional nursing role will be addressed. Prerequisites: NURS 3100 (can be concurrently enrolled) and acceptance into the BSN program. Corequisite: NURS 4041.

NURS 4041 Nursng Leadership Mgt Clinical 2.00 CR
This clinical experience will allow the student based on the application of critical thinking processes to apply the theories and principles of leadership and management in practice. The course will provide a variety of leader and manager role experiences in multiple clinical settings. Corequisite: NURS 4040.

NURS 4100 Senior Seminar 3.00 CR
This course synthesizes all previously learned knowledge and integrates the concepts of critical thinking, leadership and management, policy and ethics, cultural competence, and professional practice. The course will apply these concepts through the use of case studies, presentations, and written assignments. Prerequisites: NURS 3100, 3200, 3300, 3400, 3600, 4020, 4040, and acceptance into the BSN program.

NURS 4200 Concentration Elective/ONLINE 4.00 - 6.00 CR
This course will allow the student to select a clinical area of interest and have an intensive didactic and clinical experience. The clinical component will focus on leadership and/or advanced clinical skills. Prerequisites: NURS 3100, NURS 3200, NURS 3300, NURS 3400, NURS 3600, NURS 4020, NURS 4040, and acceptance into the BSN program. Course is variable credit from 4-6 credits. 1 lecture and 9-15 clinical hours per week.

PLACEMENT (PBC)

PBC 0800 Math for Placement 1.00 CR
Math for Placement is designed for students who need a brief review of basic math, algebra, and intermediate algebra skills before taking the CPT, ACT, or SAT or for students who have taken MATH 0920 or MATH 0990 and have missed the exit score of C to fulfill the prerequisite for MATH 1010 or higher. 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. The course will be delivered electronically. 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. The course is repeatable for a maximum of 3 credits.

PBC 1000 Math for Placement 1.00 CR
Math for Placement is designed for students who need a brief review of basic math, algebra, and intermediate algebra skills before taking the CPT, ACT, or SAT or for students who have taken MATH 1010 and have missed the exit score of C to fulfill the prerequisite for MATH 1040 or MATH 1050. 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. The course will be delivered electronically. 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. The course is repeatable for a maximum of 3 credits.

PHYSICAL EDUCATION, HEALTH AND RECREATION (PEHR)

PEHR 1001 Freshmen Exp/Athletics & PEHR 1.00 CR
This course is required for all entering freshmen, and is recommended for transfer students with 0-24 credits. The course is designed to help student 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
### Course Descriptions

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. 2 lab hrs per week.

**PEHR 1005 Health Education** 2.00 CR
This course is 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. This class involves lectures, oral reports and videos. The purpose of this course is to enable students to make sound health related decisions. 2 lecture hours per week.

**PEHR 1010 Aerobic Dynamics** 1.00 CR
Course for students interested in learning the fundamentals of individual fitness. Emphasizes fitness through a variety of cardiovascular formats, muscle conditioning and flexibility. This is an activity class. 2 activity classes per week.

**PEHR 1020 Step Workout** 1.00 CR
Course for students to learn a variety of ways to use a Reebok step for cardiovascular training as well as muscular conditioning. This is an activity class designed to learn step aerobics as well as enhance fitness. 2 lecture hours per week.

**PEHR 1057 Kundalini Yoga** 1.00 CR
The Kundalini Yoga course introduces students to the movement, meditation, and breath work practices of Kundalini Yoga. This course includes study from a text. The course presents yoga practices as a technology teaching self-awareness and consciousness. 2 lecture hours per week.

**PEHR 1085 Weight Training** 1.00 CR
Course for students interested in learning the fundamentals of weight training. Course offered for men and women. Includes instruction designed to build and strengthen the body. This is an activity class. Students will receive supervised practice in various progressive resistance exercises. Students will learn basic of weight training as well as improve their body strength.

**PEHR 1088 Fitness Center I** 1.00 CR
Designed for students who desire to begin and sustain a fitness program at Dixie College. Teaches students to manage a fitness program and pursue lifelong fitness goals. Dixie 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; however, thereafter, students use the fitness equipment at times that may be convenient to them to fulfill a required number of hours spent exercising. This series must be taken in succession. Each course is prerequisite to the next course. Course fee required.

**PEHR 1089 Fitness Center II** 1.00 CR
Designed for students who desire to begin and sustain a fitness program at Dixie College. Teaches students to manage a fitness program and pursue lifelong fitness goals. Dixie 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; however, thereafter, students use the fitness equipment at times that may be convenient to them to fulfill a required number of hours spent exercising. This series must be taken in succession. Each course is prerequisite to the next course. Course fee required.

**PEHR 1090 Fitness Center III** 1.00 CR
Designed for students who desire to begin and sustain a fitness program at Dixie College. Teaches students to manage a fitness program and pursue lifelong fitness goals. Dixie 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; however, thereafter, students use the fitness equipment at times that may be convenient to them to fulfill a required number of hours spent exercising. This series must be taken in succession. Each course is prerequisite to the next course. Course fee required.

**PEHR 1091 Fitness Center IV** 1.00 CR
Designed for students who desire to begin and sustain a fitness program at Dixie College. Teaches students to manage a fitness program and pursue lifelong fitness goals. Dixie College’s Fitness Center is equipped with the finest fitness equipment, including dozens of aerobic and strength machines, and 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; however, thereafter, students use the fitness equipment at times that may be convenient to them to fulfill a required number of hours spent exercising. This series must be taken in succession. Each course is prerequisite to the next course. Course fee required.

**PEHR 1092 Fitness Center V** 1.00 CR
This course is the next in the line of Fitness Center courses designed for those students who desire to continue with their exercise programs. This is a self-paced individualized course in which each student is able to either design or have assistance designing their own personal fitness programs to enable them to meet their personal fitness goals. Student must complete an orientation at the beginning of each semester. Course fee required.

**PEHR 1093 Fitness Center VI** 1.00 CR
This course is the next in the line of Fitness Center courses designed for those students who desire to continue with their exercise programs. This is a self-paced individualized course in which each student is able to either design or have assistance designing their own personal fitness programs to enable them to meet their personal fitness goals. Student must complete an orientation at the beginning of each semester. Course fee required.

**PEHR 1094 Fitness Center VII** 1.00 CR
This course is the next in the line of Fitness Center courses designed for those students who desire to continue with their exercise programs. This is a self-paced individualized course in which each student is able to either design or have assistance designing their own personal fitness programs to enable them to meet their personal fitness goals. Student must complete an orientation at the beginning of each semester. Course fee required.

**PEHR 1095 Fitness Center VIII** 1.00 CR
This course is the next in the line of Fitness Center courses designed for those students who desire to continue with their exercise programs. This is a self-paced individualized course in which each student is able to either design or have assistance designing their own personal fitness programs to enable them to meet their personal fitness goals. Student must complete an orientation at the beginning of each semester. Course fee required.

**PEHR 1100 Beg Tennis** 1.00 CR
Course for students interested in learning the basics of tennis. Instruction will offer fundamentals that will give the student basic stroke orientation and rules, as well as scoring information to encourage further involvement in the sport. As an activity class, 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. 2 activity classes per week.

**PEHR 1101 Interm Tennis** 1.00 CR
This course is for those students who are interested in continuing their tennis with an expanded, more advanced skill development. As an activity course, they will learn more advanced techniques in strokes and strategy as it relates to singles and doubles play. This course is designed to improve the student’s interest in the game of tennis and inspire the student to continue with tennis as a social outlet and recreational activity. 2 lecture hours per week.

**PEHR 1110 Racquetball** 1.00 CR
Course for students interested in learning the basics of racquetball. Includes instruction in serving, return, and court strategy. This is an activity class designed to give the students playing time. Students will learn skills, rules, and proper etiquette as well as improving their skill level in racquetball. Course fee required. 2 lecture hours and various lab hours per week.

**PEHR 1130 Beg Golf** 1.00 CR
Course for students interested in learning the basics of golf. Includes instruction in the fundamentals of grip, stance, swing use of various clubs, rules, and scoring.
This is an activity class designed to give the students playing time at the driving range and on the golf course. Students will learn knowledge of rules and etiquette as well as improving their skill level.

PEHR 1131 Intern Golf 1.00 CR
Course for students who are interested in learning more golf skills. Teaches fundamentals of grip, stance, swing, use of clubs, as well as rules 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. Prerequisite: PEHR 1130. Course fee required.

PEHR 1145 Bowling 1.00 CR
Course for students interested in learning the fundamentals of bowling. Includes instruction in the stance, approach, release and roll. This is an activity class designed to give the students playing time. Students will learn knowledge of rules, scoring and etiquette as well as improving their skill level. Course fee required.

PEHR 1146 Intern Bowling 1.00 CR
Course for students interested in continued development of the fundamentals of bowling. Includes instruction in the stance, approach, release and roll. This is an activity class designed to give the students playing time. Students will learn rules, scoring, and etiquette. Students will improve their bowling skill level. Course fee required. Two lecture/activity hours per week.

PEHR 1200 Basketball 1.00 CR
Course for students interested in learning the basics of basketball. Includes instruction skills, such as dribbling, passing, shooting, team offense and defense, as well as knowledge of the game. This is an activity class designed to give the students playing time. Students will learn knowledge of basketball as well as improving their individual skill level. 2 activity classes per week.

PEHR 1210 Volleyball 1.00 CR
Course for students interested in learning the basics of volleyball. Includes instruction in the fundamentals of service, passing, setting, and spiking, as well as knowledge of the rules of volleyball. This is an activity class designed to give the student playing time. Students will learn knowledge of volleyball as well as improving their individual skill level. 2 activity classes per week.

PEHR 1211 Intern Volleyball 1.00 CR
Course for students interested in learning more skills in volleyball. This is an activity class, designed to improve student’s volleyball skills, as well as provide activity. Prerequisite: PEHR 1210. 2 lecture hours per week.

PEHR 1225 Softball 1.00 CR
Course for students interested in learning the basics of softball. Includes instruction in the fundamentals of play situations and rules of softball. This is an activity class designed to give the students playing time. Students will learn knowledge of game as well as improve their individual skill level.

PEHR 1230 Soccer 1.00 CR
Course for students interested in learning the basics of soccer. Includes instruction in the fundamental skills such as dribbling, heading, shooting, trapping, passing, and defensive knowledge of the game as well as improving their individual skill level. 2 lecture hours per week.

PEHR 1235 Football Skills 1.00 CR
This course is for all students interested in developing football skills, both football team members and non-team members. This course will be taught to three groups - those interested in line play, those interested in offense, and those interested in defense. Students will gain knowledge of the game as well as improve their individual skill level through skill practice. 2 lecture hours per week.

PEHR 1287 Intercolligate Men’s Soccer 1.00 CR
Course designed for male students who play intercollegiate soccer. Only those students selected to perform athletically may take this course. Includes instruction in skills and play in intercollegiate soccer games. This is an activity class designed to give the student-athlete competitive playing time. Students will gain knowledge of the game as well as improve their individual skill level through competition. Instructor permission required.

PEHR 1288 Intercoll Women’s Cross Country 1.00 CR
This course is for women 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. Instructor permission required.

PEHR 1289 Intercoll Men’s Cross Country 1.00 CR
This course is for men 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. Instructor permission required.

PEHR 1290 Intercoll Men’s Football 1.00 CR
Course designed for students who play intercollegiate football. Only those students selected to perform athletically may take this course. Includes instruction in skills and play in intercollegiate football games. This is an activity class designed to give the student-athlete competitive playing time. Students will gain knowledge of the game as well as improve their individual skill level through competition. Instructor permission required.

PEHR 1291 Intercoll Women’s Volleyball 1.00 CR
Course designed for female students who play intercollegiate volleyball. Only those students selected to perform athletically may take this course. Includes instruction in skills and play in intercollegiate volleyball games. This is an activity class designed to give the student-athlete competitive playing time. Students will gain knowledge of the game as well as improve their individual skill level through competition. Instructor permission required.

PEHR 1292 Intercoll Men’s Soccer 1.00 CR
Course designed for students who play intercollegiate soccer. Only those students selected to perform athletically may take this course. Includes instruction in skills and play in intercollegiate soccer games. This is an activity class designed to give the student-athlete competitive playing time. Students will gain knowledge of the game as well as improve their individual skill level through competition. Instructor permission required.

PEHR 1293 Intercoll Men’s Basketball 1.00 CR
Course designed for men who play intercollegiate basketball. Only those students selected to perform athletically may take this course. Includes instruction in skills and play in intercollegiate basketball games. This is an activity class designed to give the student-athlete competitive playing time. Students will gain knowledge of the game as well as improve their individual skill level through competition. Instructor permission required.

PEHR 1294 Intercoll Women’s Basketball 1.00 CR
Course designed for women who play intercollegiate basketball. Only those students selected to perform athletically may take this course. Includes instruction in skills and play in intercollegiate basketball games. This is an activity class designed to give the student-athlete competitive playing time. Students will gain knowledge of the game as well as improve their individual skill level through competition. Instructor permission required.

PEHR 1295 Intercoll Men’s Golf 1.00 CR
Course designed for first year students who play intercollegiate golf. Only those students selected to perform athletically may take this course. Includes instruction in skills and play in intercollegiate golf games. This is an activity class designed to give the student-athlete competitive playing time. Students will gain knowledge of the game as well as improve their individual skill level through competition. Instructor permission required.

PEHR 1296 Intercoll Men’s Baseball 1.00 CR
Course designed for students who play intercollegiate baseball. Only those students selected to perform athletically may take this course. Includes instruction in skills and play in intercollegiate baseball games. This is an activity class designed to give the student-athlete competitive playing time. Students will gain knowledge of the game as well as improve their individual skill level through competition. Instructor permission required.

PEHR 1297 Intercoll Women’s Softball 1.00 CR
Course designed for students who play intercollegiate softball. Only those students...
Course Descriptions

selected to perform athletically may take this course. Includes instruction in skills and play in intercollegiate softball games. This is an activity class designed to give the student-athlete competitive playing time. Students will gain knowledge of the game as well as improve their individual skill level through competition. Instructor permission required.

PEHR 1298 Intercoll Women’s Tennis 1.00 CR
This course is for women athletes chosen to compete in intercollegiate tennis competition. Only those selected for the team may enroll. Students will gain knowledge of the game and improve their skills through contracted practice under a professional coach. Instructor permission required.

PEHR 1300 Beg Swimming 1.00 CR
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, form of a crawl stroke and elementary backstroke. This is an activity class designed to give the student swimming time. Students will gain knowledge as well as improve their skill level in swimming. Course fee required. 2 lecture hours per week.

PEHR 1301 Interm Swimming 1.00 CR
Course designed for students interested in learning intermediate aspects of swimming. Teaches advanced techniques of the four competitive strokes—front crawl, back crawl, breaststroke and butterfly, as well as the two leisure strokes—sidestroke and elementary backstroke. This is an activity class designed to improve the student’s skill fitness level. A required course for all PEHR majors transferring to four-year institutions. 2 lecture hours per week.

PEHR 1340 Lifeguarding 2.00 CR
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. Successful completion of this course includes the Red Cross Exam, and successful students will be Red Cross certified. Prerequisite: Proficiency in two basic strokes (American Crawl and breaststroke). Course fee required. 2 lecture hours per week.

PEHR 1350 Scuba Diving 1.00 CR
Course for students interested in scuba diving. Includes lectures on underwater environment, diving skills, equipment, techniques, respiration, breathing at depth, and safety procedures in scuba diving. While students receive the PADI (Professional Association for Diving Instructors) open water scuba course, students must certify in scuba diving independently of this course. Course fee required. Course must be taken concurrently with PEHR 1355. 2 lecture hours per week.

PEHR 1355 Scuba Diving Lab 0.00 CR
This class is designed for students taking the Scuba Diving class. Students will practice basic scuba diving techniques, scuba safety, and use of scuba equipment in a swimming pool and in strictly limited supervised open water dives. Lab fee required. 2 lab hours per week.

PEHR 1450 Chinese Kung Fu 1.00 CR
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. It 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. This course is an elective credit course. 2 lecture/activity hours per week.

PEHR 1510 Fresh Water Fishing 1.00 CR
Fresh Water Fishing is a class 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. A mandatory weekend trip is planned to more distant locations during the course of the semester. Topics studied include tackle, the various types of fishing techniques (fly, bait, spincast, baitcast, trolling, etc.), the laws and regulations, and safety, as well as etiquette. Course fee required.

PEHR 1527 Intro to Climbing 1.00 CR
This course is designed for all students, presenting introductory information on safety, equipment and its maintenance, and climbing technique, including rappelling, belaying, and sport climbing. All climbs will be conducted on and off campus at local venues. Fee required. 2 lab hours per week.

PEHR 1530 Primitive Survival Skills 1.00 CR
Make your brain your survival kit by learning 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, and many other pertinent topics. This class includes half-classroom and half outdoor laboratories (every other week, plus a weekend field trip at the end). Course fee required.

PEHR 1535 Backpacking 1.00 CR
Learn about the basic principles, tools, skills, and equipment pertaining to a safe and enjoyable activity revolving around overnight backcountry foot-powered trips. Share with your fellow classmates materials and information related to larger setting in which backpacking takes place, including politics, conservation, history, lore, and folklore, etc. Course includes half classroom and half laboratory activities (every other week, plus a weekend field trip at the end). Course fee required.

PEHR 1543 First Aid/Respond to Emergency 3.00 CR
Course designed for students desiring to learn about first aid including allied health majors, community members, and PE majors. Includes 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. 3 lecture hours per week.

PEHR 1545 Outdoor Cooking 1.00 CR
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 as well as cooking for large groups. A forum for sharing of recipes and menus will be provided. This is a hands on course with half classroom and half outdoor laboratories (every other week, plus a weekend field trip at the end).

PEHR 1550 Mountain Biking 1.00 CR
This course is designed to present basic information on equipment purchase, maintenance and repair. Fitness programs and short trips are conducted in the St. George area with an extended tour planned by the group to conclude the semester.

PEHR 1575 Rodeo Rules & Conditioning 1.00 CR
This course is designed for the rodeo athlete who participates in intercollegiate rodeo 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. This course may be repeated for credit.

PEHR 1730 Adaptive PE 1.00 CR
Course for students physically disabled or unable for physical or medical reasons to participate in the regular physical education courses. Teacher will work with the student and give assignments according to the student’s individual abilities and needs. Time will be arranged by instructor. Prerequisite: Instructor permission.

PEHR 1740 Adaptive PE 1.00 CR
Course for students physically disabled or unable for physical or medical reasons to participate in the regular physical education courses. Teacher will work with the student and give assignments according to the student’s individual abilities and needs. Time will be arranged by instructor. Prerequisite: Instructor permission.

PEHR 1790 Weight Training for Women 1.00 CR
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. 2 lab hours per week.

PEHR 1850 Special Perform Cheerleading 1.00 CR
This class may be taken only by those students selected to perform as Cheerleaders. This is an activity class designed to give the students time to prepare for performance. Substantial time will be spent performing. Prerequisite: Instructor permission.
PEHR 1860 Dixie Dance Team 1.00 CR
This course may be taken only by those students selected to perform as Rebellees.
This is an activity class designed to give the students time to prepare for performance.
Substantial time will be spent performing. Prerequisite: Instructor permission.
Course fee required.

PEHR 1870 Fundamentals of Team Sports 3.00 CR
Fundamentals of Team Sports (Softball, Volleyball, Soccer, Basketball, Flag Football)
For students who are interested in learning the fundamental rules, regulations and skills of individual and dual sports, specifically, softball, volleyball, soccer, basketball, flag football. The course is open to all students, but required for all PEHR majors transferring to four-year institutions. 3 lecture hours per week.

PEHR 1880 Fundamentals of Ind Dual Sport 3.00 CR
Fundamentals of Individual and Dual Sports (Tennis, Golf, Badminton, Weight Training and Racquetball)
This course is for students who are interested in learning the fundamental rules, regulations and skills of individual and dual sports, specifically tennis, golf, badminton, weight training and racquetball. The course is open to all students, but required for PEHR majors transferring to four-year institutions. 3 lecture hours per week.

PEHR 1970 PE Work Experience 1.00 - 3.00 CR
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. Fall section.

PEHR 1971 PE Work Experience 1.00 - 3.00 CR
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. Spring section.

PEHR 2010 Intro to PE 2.00 CR
Course required for physical education majors. Teaches history and principles of physical education. Study of the objectives of modern physical education with a view toward the development of the basic philosophy and background of professional education. Open to first semester students. 2 lecture hours per week.

PEHR 2020 Exercise Science 2.00 CR
Designed 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. Course contains lecture and lab exercises. Students are encouraged to have taken or take CPR training concurrently. The course objective is to prepare students for the American Council of Exercise (ACE) certifying exam. Must be taken concurrently with PEHR 2040. 2 lecture hours per week.

PEHR 2030 Exercise Science/Aerobics Lab 0.50 CR
A laboratory course to be taken concurrently with PEHR 2020. 2 lab hours per week.

PEHR 2040 Exercise Science/Fitness Train 1.00 CR
A laboratory course to be taken concurrently with PEHR 2020. 2 lab hours per week.

PEHR 2410 Football Officiating 1.00 CR
For students wishing to officiate in interscholastic, intramural and community games. Teaches rules, techniques, problems and procedures in officiating football and flag football. Utilizes lecture, media, guest lecturers and practical game experience. 2 lab hours per week.

PEHR 2420 Volleyball Officiating 1.00 CR
For students wishing to officiate in interscholastic, intramural and community games. Teaches rules, officiating, techniques, problems and procedures used in volleyball. Uses lecture, media, guest lecturer and practical games situations. 2 lab hours per week.

PEHR 2430 Basketball Officiating 1.00 CR
For students wishing to officiate in interscholastic, intramural and community games. Teaches rules, officiating, techniques, problems and procedures used in basketball. Uses lecture, media, guest lecturer and practical games situations. 2 lab hours per week.

PEHR 2850 Drill/Cheer/Dance Squad Advise 2.00 CR
This course is for students who plan to teach or coach drill, cheer or dance squads. It is designed to give emphasis to the organization and administration of studio teachers and high school/college drill, cheer and dance advisors. Class activities will include: choreography, music selection, costume design, auditioning, budgeting, teaching and other activities involved in advising squads. Designed for those who wish to advise drill, cheer and dance squads, and some PEHR majors. 2 lecture hours per week.

PEHR 2990 Seminars in Physical Education 0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, 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.

PEHR 2991 Seminar in Physical Education 0.50 - 3.00 CR
For students seeking instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, 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.

PEHR 2992 Seminar in Physical Education 0.50 - 3.00 CR
For students seeking instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, 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.
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 elective and does not fulfill general education or program requirements. Prerequisite: Instructor permission.

PEHR 2993 Seminar in Physical Education 0.50 - 3.00 CR
For students seeking instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, 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 elective and does not fulfill general education or program requirements. Prerequisite: Instructor permission.

PEHR 2995 Seminar in Physical Education 0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, 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 elective and does not fulfill general education or program requirements. Prerequisite: Instructor permission.

PEHR 2996 Seminar in Physical Education 0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, 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 elective and does not fulfill general education or program requirements. Prerequisite: Instructor permission.

PHILOSOPHY (PHIL)

PHIL 1000 Intro to Philosophy "HU" 3.00 CR
For students of all disciplines. Teaches the general nature of philosophy, its origins and its influences on human experience. Offers an introduction to philosophical theories of knowledge, ethics and values, truth, reality, being, science, politics, aesthetics and religion. Requirements include examinations requiring essay and objective responses, formal essays and informal written responses, quizzes, and participation in class discussions and group presentations. Satisfies a general education requirement in the humanities. 3 lecture hours per week.

PHIL 1120 Social Ethics "HU" 3.00 CR
For students in all disciplines who are interested in philosophy, moral values and the application of ethics to social issues. This course also satisfies a general education requirement in the humanities. Teaches 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. 3 lecture hours per week.

PHIL 2990 Seminar in Philosophy 0.50 - 3.00 CR
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 elective and does not fulfill general education or program requirements.

PHIL 3510 Professional Ethics 3.00 CR
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: Acceptance into a baccalaureate program or permission from upper-division advisor. 3 lecture hours per week.

PHLEBOTOMY (PHLB)

PHLB 1000 Phlebotomy 4.00 CR
Course designed to provide first hand training for students to become proficient in drawing and obtaining blood samples for laboratory analysis. Students will be able to obtain blood from a vein or capillary using the following methods: vacutainer, syringe, butterfly, heel and finger stick. Students also will learn universal precautions and proper handling of specimens. A number of live sticks is required for successful completion of the course. Prerequisite: Acceptance into the Phlebotomy program. Course fee required. 4 lecture hours per week.

PHYSICS (PHYS)

PHYS 1010 Elementary Physics "PS 3.00 CR
Designed primarily to fill part of the physical science general education requirement. Not recommended for science or engineering majors. Covers the basic concepts of physics in an historical perspective. Provides the students with many practical examples that demonstrate the role of physics in their everyday life. Uses lectures, videos, and demonstrations. Prepares students to pass the general education requirement in physical science. Prerequisite: ACT/CPT score of 23, or a minimum grade of C in Math 1010. 3 lecture hours per week.

PHYS 1020 Intro to Weather "PS 3.00 CR
Designed for students wanting to fill a physical science requirement and interested in weather. A general survey of the atmosphere and related phenomenon, including the impact weather has on human activities as well as understanding of the basic weather principles. This course will use lectures, slides, and videos to help the students gain an understanding of the weather. Successful completion of this course enables the student to better understand and appreciate weather. 3 lecture hours per week.

PHYS 1040 Elementary Astronomy "PS 3.00 CR
Designed for students wanting to fill a physical science requirement and interested in astronomy. A general study of the solar system. This course will use lecture, demonstration, videos, slides, and labs where students will look through telescopes to identify planets, stars, constellations and galaxies. Successful completion will enable students to understand concepts of the space around us and its contents. Lab fee required. 3 lecture hours per week.

PHYS 1045 Elem Astronomy Lab 1.00 CR
A lab course to be taken concurrently with PHYS 1040: Astronomy. Lab fee required. 3 lab hours per week.

PHYS 1360 Prin of Physical Science 3.00 CR
A lecture/laboratory course designed to provide an introduction to the scientific method and its application to the study of selected topics in physics, chemistry and geology. A local 6 hour field trip is also required. Recommended for Elementary Education majors. 3 lecture hours per week.

PHYS 1365 Prin of Physical Science Lab 1.00 CR
A laboratory course designed to be taken concurrently with PHYS 1360. A local 6-hour field trip is also required. Lab fee required. 3 lab hours per week.
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PHYS 2010 College Physics I *PS 4.00 CR
First semester of a general two-semester course for students majoring in pre-dental, pre-medical and other pre-professional and biological programs. PHYS 2010 satisfies general education physical science requirements and covers the basics of mechanics, heat, and sound. Uses lectures, videos, demonstrations and computerized laboratory experiments. Successful completion of this course satisfies physics requirements to meet pre-dental, pre-medical and other pre-professional and biological programs. Prerequisite: MATH 1060 or concurrently enrolled in Math 1060, or MATH 1065. 4 lecture hours per week.

PHYS 2015 College Physics I Lab 1.00 CR
A lab to be taken concurrently with Physics 2010. Lab fee required. 3 lab hours per week.

PHYS 2020 College Physics II *PS 4.00 CR
A second semester of a general two-semester course for students majoring in pre-dental, pre-medical and other pre-professional and biological programs. Covers the basics of electricity, magnetism, and light. Uses lecturers, videos, demonstrations and computerized laboratory experiments. Successful completion of this series satisfies physics requirements to meet pre-dental, pre-medical and other pre-professional and biological programs. Prerequisite: PHYS 2010. This course is offered spring semester only. 4 lecture hours per week.

PHYS 2210 Phys for Scientists/Engr I 4.00 CR
An intensive two semester course for students majoring in physical science and engineering with fundamental emphasis on mechanics; electricity and magnetism; and heat, sound and light. Uses lectures, videos, demonstrations and computerized laboratory experiments to develop the student’s interest and understanding of the basic principles of physics. The first course, PHYS 2210 satisfies general education physical science requirements. The course is designed to develop the student’s capacity to analyze problems in physics and to express solutions in mathematical form utilizing mathematics up to and including the use of up-to-date equipment interfaced to computers. Successful completion of this series satisfies Physics requirements in physical science, engineering, and some biological and plant science programs. PHYS 2210 satisfies prerequisites for ENGR 2000. Prerequisite: MATH 1210. PHYS 2210 is offered fall semester; PHYS 2220 is offered spring semester. Lab fee required. 4 lecture hours and 3 lab hours per week.

PHYS 2215 Phys for Scientists/Engr I Lab 1.00 CR
A lab to be taken concurrently with Physics 2210. Lab fee required. 3 lab hours per week.

PHYS 2220 Phys for Scientists/Engr II 4.00 CR
An intensive two semester course for students majoring in physical science, engineering, and some biological and plant science programs, with fundamental emphasis on mechanics; electricity and magnetism; and heat, sound and light. Uses lectures, videos, demonstrations and computerized laboratory experiments to develop the student’s interest and understanding of the basic principles of physics. The first course, PHYS 2210 satisfies general education physical science requirements. The course is designed to develop the student’s capacity to analyze problems in physics and to express solutions in mathematical form utilizing mathematics up to and including the use of up-to-date equipment interfaced to computers. Successful completion of this series satisfies physics requirements to meet in physical science and engineering. PHYS 2210 satisfies prerequisites for ENGR 2000. Prerequisite: MATH 1220 and PHYS 2210. PHYS 2210 is offered fall semester; PHYS 2220 is offered spring semester. 4 lecture hours per week.

PHYS 2225 Phys for Scientists/EngrII Lab 1.00 CR
A lab course to be taken concurrently with Physics 2220. Lab fee required. 3 lab hours per week.

PHYS 2710 Introductory Modern Physics 3.00 CR
An introductory course for students majoring in physics and some fields or engineering, it is also recommended for chemistry and other science majors. Includes relativity, wave-particle duality, an introduction to quantum physics, atomic physics, and nuclear physics. 3 lecture hours per week.

PHYS 2990 Seminar in Physics 0.50 - 3.00 CR
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.

POLITICAL SCIENCE (POLS)

POLS 1100 American Government *AI 3.00 CR
This course satisfies the Utah System of Higher Education American Institution requirements. Surveys the founding of the U.S. Government, the U.S. Constitution, the Legislative, Executive and the Judicial branches of government. Also surveys politics and elections, international relations and national security. A lecture course which also employs a wide variety of instructional methods including student reports, discussions and audio-visual materials. Helps students acquire a greater understanding of the federal system and of federalism. Students will develop a greater understanding and appreciation of the role of citizens in a modern democracy. Prerequisite: A placement score of 17 or higher in Reading, or a successful challenge test in reading taken at the Testing Center, or English 1470. 3 lecture hours per week.

POLS 1800 Poli Sci Work Experience 1.00 - 3.00 CR
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. Fall Section.

POLS 1810 Poli Sci Work Experience 1.00 - 3.00 CR
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. Spring section.

POLS 1820 Poli Sci Work Experience 1.00 - 3.00 CR
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. Summer section.

POLS 2100 Intro/International Relations 3.00 CR
For students majoring in political science. Primary forces, practices, and institutions, of international politics; the foreign policies of major powers; and major problem areas in international politics. 3 lecture hours per week.

POLS 2200 Intro to Comparative Politics 3.00 CR
Comparative Politics examines political activities within individual countries. It looks at the politics of a diverse set of nations like 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
### Course Descriptions

politics work in a variety of national settings. This will allow students to under-
stand many democratic styles, and how democratic politics compares with the poli-
tics in authoritarian governments. Students will read widely and write com-
paratively about various government structures in various countries. 3 lecture hours per week.

**POLS 2300 Intro to Political Theory** 3.00 CR
Introduction to Political Theory examines the ideas of about government beginning
with Plato and running to John Rawls. The major thinkers to be considered will be
Aristotle, Augustine, Aquinas, Machiavelli, Hobbs, Locke, Montesquieu, Rousseau,
Hume, Burke, Kant, Mill, and Marx. The course includes ideas about the relation-
ship 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 gov-
ern; and about the correct balance between freedom for the individual and the au-
thority of the state. In the process, students will read from the works of the great
political thinkers and write criticisms and comparisons of those thinkers’ ideas. 3
lecture hours per week.

**POLS 2990 Seminar in Political Science** 0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly sched-
uled courses in this discipline. Occasionally, either students request some type of
non-traditional instruction, or an unanticipated opportunity for instruction pres-
ents 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.

### PSYCHOLOGY (PSY)

**PSY 1010 General Psychology ~SS** 3.00 CR
For students in all disciplines who are interested in the fundamental scientific prin-
ciples of behavior. The student will study learning, motivation, emotion, personal-
ity, 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 require-
ments. This course satisfies general education requirements in the social sciences
area. 3 lecture hours per week.

**PSY 1100 Human Development/Lifespan ~SS** 3.00 CR
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 pre-
natal development to late adulthood. Studies scientific methods of collecting and
interpreting data, analyzes developmental events from various perspectives, and fo-
cuses on applying this knowledge to one’s own development. Utilizes textbook
reading, tests, quizzes, and journal writing. Satisfies general education requirements
in the social science area. 3 lecture hours per week.

**PSY 1210 Psychology of Personal Growth** 3.00 CR
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 rear-
ing, work, and aging. Uses textbook readings, group discussions, and journal writ-
ing to explore past and present decisions and to make future choices to promote
personal growth toward self-actualization and fulfillment. An elective course in psy-
chology, although Psychology 1010 is recommended as a prerequisite. 3 lecture hours per week.

**PSY 1430 Stress Management** 3.00 CR
For students of all disciplines who wish to learn more about the stress response.
Sources of stress, physiological and psychological responses to stress and other com-
ponents of stress will be investigated. Students will be given relaxation training through
several alternative approaches. Grading is based on levels of criteria being met from
examinations from the text, completion of self-appraisals, self-exploration through
written exercises. An elective credit course in psychology. 3 lecture hours per week.

**PSY 1480 Substance Abuse: Prevention** 3.00 CR
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 regulat-
ing 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 presen-
tation, and examinations from the textbook. An elective course in psychology. 3
lecture hours per week.

**PSY 1800 Psychology Work Experience** 1.00 - 3.00 CR
Cooperative Education relates the classroom to the employment community. Those
with a designated major and a vocational or career interest may be assisted in locat-
ing employment that relates to classroom studies. If a student has approved employ-
ment, 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 reg-
istration. Students are limited to four cooperative education credit courses or 12
cooperative education credits. Fall section.

**PSY 1810 Psychology Work Experience** 1.00 - 3.00 CR
Cooperative Education relates the classroom to the employment community. Those
with a designated major and a vocational or career interest may be assisted in locat-
ing employment that relates to classroom studies. If a student has approved employ-
ment, 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 reg-
istration. Students are limited to four cooperative education credit courses or 12
cooperative education credits. Spring section.

**PSY 1820 Psychology Work Experience** 1.00 - 3.00 CR
Cooperative Education relates the classroom to the employment community. Those
with a designated major and a vocational or career interest may be assisted in locat-
ing employment that relates to classroom studies. If a student has approved employ-
ment, 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 reg-
istration. Students are limited to four cooperative education credit courses or 12
cooperative education credits. Summer section.

**PSY 2800 Human Sexuality** 3.00 CR
The purpose of this course is to provide 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. 3 lecture hours
per week.

**PSY 2990 Seminar in Psychology** 0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly sched-
uled courses in this discipline. Occasionally, either students request some type of
non-traditional instruction, or an unanticipated opportunity for instruction pres-
ents 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.

**PSY 3000 Statistical Methods/Psychology** 3.00 CR
Includes an introduction to and application of statistical methods to psychological
research. Students will 1) design and measure psychological constructs, 2) select,
compute, and interpret descriptive and inferential statistics, 3) use computer tech-
ology to facilitate statistical analyses, 4) accurately represent the results of statistical
analyses, and 5) critically analyze methodological and statistical arguments. Prereq-
uisites: PSY 1010 and MATH 1040. Lab required. 3 lecture hours per week.

**PSY 3005 Statistical Methods/Psy LAB** 1.00 CR
Includes an introduction to and application of statistical methods to psychological
research. Students will 1) design and measure psychological constructs, 2) select, compute, and interpret descriptive and inferential statistics, 3) use computer technology to facilitate statistical analyses, 4) accurately represent the results of statistical analyses, and 5) critically analyze methodological and statistical arguments. Concurrent enrollment in PSY 3000 required. 2 lab hours per week.

PSY 3010 Research Methods in Psychology 3.00 CR
Includes 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. Prerequisites: PSY 1010 and PSY 3000. Lab required. 3 lecture hours per week.

PSY 3015 Research Methods in Psy LAB 1.00 CR
Conduct theory driven basic research in psychology, to include hypothesis formulation and testing, data gathering, analysis, and interpretation. Includes both correlation and experimental research projects. Concurrent enrollment in PSY 3010 required. 2 lab hours per week.

PSY 3120 Cognitive Psychology 3.00 CR
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. Prerequisite: PSY 1010. 3 lecture hours per week.

PSY 3200 Devlpmt in Infancy & Childhood 3.00 CR
A review of theory 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 1010 and either PSY 1100 or FCS 1500. 3 lecture hours per week.

PSY 3400 Psyc of Abnormal Behavior 3.00 CR
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. Course requires college reading level skills and will require library research. Prerequisite: Psychology 1010. 3 lecture hours per week.

PSY 3410 Social Psychology 3.00 CR
The scientific study of how individuals’ thoughts, feelings, and behaviors are influenced by other people. Topic areas include identity, social perception, attitudes, persuasion, conformity and obedience, stereotypes and prejudice, group conflict, aggression and violence, helping behavior, and interpersonal relationships. Prerequisite: PSY 1010. 3 lecture hours per week.

PSY 3700 Personality Theory 3.00 CR
Building on established personality theories, the course offers students the opportunity for expanded self-understanding and understanding of others. Primary focus is on presentation and discussion of diverse theoretical views of personality and personal development. Prerequisite: PSY 1010. 3 lecture hours per week.

PSY 3711 Behavioral Neuroscience 3.00 CR
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. PSY 3000 and PSY 3010 recommended. Prerequisite: PSY 1010, BIOL 1010 or BIOL 1610. 3 lecture hours per week.

PSY 4140 Cognitive Neuroscience 3.00 CR
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. Prerequisites: PSY 1010 required. PSY 3120 recommended. 3 lecture hours per week.

PSY 4200 Psychology of Morality 3.00 CR
This course 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 deixiance. Prerequisite: PSY 1010 and Junior standing. 3 lecture hours per week.

PHYSICAL THERAPY (PTA)

PTA 1010 Intro to Physical Therapy 2.00 CR
This course introduces students to the field of physical therapy specifically and rehabilitation medicine in general. The definition and history of physical therapy, types of care, treatment, and its role in health care are emphasized. Other rehabilitation professions, professional communication, and medical terminology are presented. This course is designed to assist students in career decisions and is a prerequisite to the physical therapist assistant program. 2 lecture hours per week.

RADIOGRAPHY (RADT)

RADT 1015 Intro to Radiography 4.00 CR
This course provides an overview of the medical radiography profession and program. Topics to be covered include medical terminology, radiation protection, radiographic equipment and basic patient care skills with emphasis on patient communication, age-specific needs and cultural diversity. Prerequisite: Acceptance into the Medical Radiography Program. Corequisites: RADT 1020, RADT 1030, RADT 1040. 4 lecture hours per week.

RADT 1020 Radiographic Procedures I 4.00 CR
This course provides the student with instruction to perform radiographic procedures and identifying anatomy of the upper/lower extremities, chest and abdomen with emphasis on radiation protection, surface landmarks and pathology. Image analysis is introduced. Prerequisite: Acceptance into the Medical Radiography Program. Corequisites: RADT 1015, RADT 1025, RADT 1030, RADT 1040. 3 lecture hours per week.

RADT 1025 Radiographic Procedures I Lab 0.00 CR
This is the laboratory portion of RADT 1020. Corequisite: RADT 1020. 2 lab hours per week.

RADT 1030 Radiographic Imaging I 3.00 CR
This course provides the student with an in depth analysis of factors affecting image quality. Topics include density, contrast, detail, distortion and technique formulations. Radiographic imaging devices covered include screens, film, grids, imaging plates, and beam-limiting devices. Digital imaging will be introduced. Prerequisite: Acceptance into the Medical Radiography Program. Corequisites: RADT 1015 and RADT 1020 and RADT 1035 and RADT 1040. 2.5 lecture hours per week.

RADT 1035 Radiographic Imaging I Lab 0.00 CR
This is the laboratory portion of RADT 1030. Corequisite: RADT 1030. 1 lab hour per week.

RADT 1040 Clinical Education I 4.00 CR
This course provides an opportunity for the student to apply theories and develop skills, in a supervised setting, presented in RADT 1010 and RADT 1020. Students will observe, assist and perform basic radiographic procedures with emphasis on upper/lower extremities, chest and abdomen. This course will begin mid semester. Prerequisite: Acceptance into the Medical Radiography Program. Corequisites: RADT 1015, RADT 1020, RADT 1030. 144 clinical hours.

RADT 1120 Radiologic Procedures II 3.00 CR
This course provides the student with instruction in performing radiographic procedures and identifying anatomy of the vertebral column and bony thorax. Critical thinking and problem-solving skills are encouraged through image analysis, positioning techniques and pathology considerations. Prerequisites: RADT 1015 and RADT 1020 and RADT 1030 and RADT 1040. Corequisites: RADT 1125 and RADT 1140. 2 lecture hours per week.
RADT 1120 Radiographic Procedures III 3.00 CR
This course provides the student with instruction in performing radiographic procedures and identifying anatomy of the genitourinary, gastrointestinal and biliary systems, skull and facial bones and advanced surgical procedures. Critical thinking and problem-solving skills are encouraged through image analysis, positioning techniques and pathology considerations. This course also includes discussion of composition, use and effects of contrast media. Prerequisites: RADT 1120 and RADT 1140. Corequisites: RADT 1225, RADT 1230, RADT 1240, RADT 1250.

RADT 1225 Radiographic Proced. III Lab 0.00 CR
This is the lab portion of RADT 1220. Corequisite: RADT 1220.

RADT 1230 Radiographic Imaging II 2.00 CR
This course provides the student with instruction in performing radiographic procedures and identifying anatomy of the genitourinary, gastrointestinal and biliary systems, skull and facial bones. Critical thinking and problem-solving skills are encouraged through image analysis, positioning techniques and pathology considerations. This course also includes discussion of composition, use and effects of contrast media. Prerequisites: RADT 1120, RADT 1125, RADT 1140. Corequisites: RADT 1220 and RADT 1240 and RADT 1250. 2 lecture hours per week.

RADT 1240 Clinical Education III 7.00 CR
This course is a continuation of Clinical Education II providing the student with the opportunity to apply theories and further develop technical skills. Students will gain experience in patient management specific to fluoroscopic and advanced radiographic procedures. Emphasis is placed on skull, facial bones, gastrointestinal and genitourinary procedures. Prerequisites: RADT 1220 and RADT 1140. Corequisites: RADT 1220 and RADT 1230 and RADT 1250. 336 clinical hours.

RADT 1250 Advanced Patient Care 2.00 CR
This course provides instruction in advanced patient care skills. Topics include pharmacology and contrast administration for medical imaging, ethics and law, mobile and surgical radiography. Prerequisites: RADT 1120 and RADT 1125 and RADT 1140. Corequisites: RADT 1220 and RADT 1230 and RADT 1240. 2 lecture hours per week.

RADT 1260 Radiography Seminar 3.00 CR
This is a capstone course that offers a review and reflection on previous coursework providing the student with a meaningful approach to evaluate areas of strengths and weaknesses and to prepare for credentialing exams and employment. Prerequisite: RADT 2140 and RADT 2150. Corequisite: RADT 2240.

RESPIRATORY THERAPY (RESP)

RESP 2010 Intro to Resp Therpy & Med Term 2.00 CR
Course introduces students to the profession of respiratory care, including the professional organizations, credentialing, and licensing agencies. Course also provides the student with an overview of medical ethics, medico-legal issues of health care, and regulations such as HIPPA and selected OSHA standards. This course provides an introduction to medical terminology and patient-care documentation. 2 lecture hours per week.

RESP 2020 Cardiopulmonary Anatmy & Physiol 3.00 CR
This course expands on basic human anatomy and physiology and concentrates on the cardiopulmonary system. Content includes selected gas laws and physical principles associated with respiration and gas exchange, ventilation, pulmonary mechanics, and circulation, and hemodynamics. Course introduces fetal and newborn anatomy and physiology and basic cardiac and renal function. Prerequisite: Acceptance into the respiratory therapy program is required. 3 lecture hours per week.

RESP 2030 Intro to Pathophysiology 3.00 CR
Course provides introduction to human diseases, injuries, conditions, and disorders. Content includes a review of the hematologic, gastrointestinal, musculoskeletal, integumentary, endocrine, urinary, neurological, cardiac, and pulmonary systems. Pathologies associated with genetic traits or abnormalities and carcinogenesis are also covered. Basic introduction to fluid and electrolyte and acid-base balance are included with specific clinical application of diagnostics associated with respiratory care. This course will include integration of general pathologies as they relate to the scope of practice of respiratory therapists. Prerequisites: Acceptance into the respiratory therapy program is required. 3 lecture hours per week.

RESP 2040 Resp Care Therapeutics I 3.00 CR
Course provides students with theory and clinical applications of a wide range of respiratory therapy modalities. Content includes medical gases (including cylinders, regulators, flowmetering devices, and liquid oxygen), aerosols, humidity, hyperinflation techniques, chest physiotherapy, and airway clearance techniques. Students must master the clinical indications, contraindications, side-effects, and desired outcomes of therapies. Clinical Practice Guidelines [CPGs] are introduced. Prerequisite: Acceptance into the respiratory therapy program is required. Corequisite: RESP 2041. 3 lecture hours per week.

RESP 2041 Lab Prac/Therapeutics I 2.00 CR
Course provides students with an introduction to patient care, including body mechanics, patient interactions and documentation of patient care. Students will practice the selection, use, and trouble-shooting of equipment associated with providing medical gases, aerosol and humidity, hyperinflation techniques, IPPB, and airway clearance. Introduction to respiratory pharmacology and devices used to administer and monitor aerosolized medications is also provided. Prerequisite: Acceptance into
the respiratory therapy program is required. Corequisite: RESP 2040. 4 lab hours per week.

RESP 2050 Intro to Respir Care Pharmacol 3.00 CR
Course provides students with an introduction to principles of pharmacology including administration routes and dosage calculation of selected medications. Content includes pharmacology associated with treatment of infectious diseases and disorders of the hematologic, cardiovascular, pulmonary, endocrine, renal, GI, and neurologic systems. Concepts of management of sedation, anesthesia, analgesia, and chemotherapeutic agents are also included. Specific application of principles associated with aerosolized medications and topical absorption is included. Prerequisite: Acceptance into the respiratory therapy program is required. 3 lecture hours per week.

RESP 2060 Patient Assessment 2.00 CR
Course introduces students to basic patient assessment techniques including physiologic assessment and integration of laboratory and diagnostic findings associated with specific diagnoses. Content includes physical findings; radiologic findings and other imaging studies; laboratory tests such as electrolytes, bacteriology, hematology, and metabolic studies; acid-base balance and blood gas analysis; basic pulmonary function; and hemodynamic values. Emphasis of this course is the integration of the patient presentation and the associated pathology. Prerequisite: Acceptance into the respiratory therapy program is required. 2 lecture hours per week.

RESP 2065 Cardiopulmon Pathophysiology 3.00 CR
Course expands upon introduction to pathophysiology with an emphasis on cardiopulmonary and renal injuries, diseases, disorders, and conditions. Students participate in a case-based course that integrates the etiology, presentation, pathophysiology, diagnosis, treatment, and prognosis of cardiopulmonary, hemodynamic, and renal dysfunction. Course also explores neonatal and pediatric pathologies of the renal and cardiopulmonary systems, including congenital and structural defects. Prerequisite: Acceptance into the respiratory therapy program is required. 3 lecture hours per week.

RESP 2070 Resp Care Therapeutics II 3.00 CR
Laboratory practice course requires students to master artificial airway management skills including endotracheal intubation and bag-valve-mask ventilation. Course also provides practice in blood gas sampling, noninvasive monitoring, basic ventilatory support, basic pulmonary function assessments and bedside spirometry. Prerequisites: Acceptance into the respiratory therapy program is required. Corequisites: RESP 2071 and RESP 2100. 3 lecture hours per week.

RESP 2071 Lab Pract/Therapeutics II 2.00 CR
Laboratory practice course requires students to master artificial airway management skills including endotracheal intubation and bag-valve-mask ventilation. Course also provides practice in blood gas sampling, noninvasive monitoring, basic ventilatory support, basic pulmonary function assessments and bedside spirometry. Prerequisite: Acceptance into the respiratory therapy program is required. Corequisites: RESP 2070 and RESP 2100. 4 lab hours per week.

RESP 2100 Clinical Practice I 5.00 CR
Students are introduced to the hospital setting and practice clinical application of all skills mastered in the laboratory courses RESP 2041 and RESP 2071. Students develop interaction skills with patients and other members of the health care team and demonstrate proficiency in providing therapies, monitoring and documenting care, and prioritizing to develop time management skills. Students participate in clinical care conferences and in the evaluation of the appropriateness of care with respect to COPGs. Prerequisite: Acceptance into the respiratory therapy program is required. Corequisites: RESP 2070 and RESP 2071. 15 clinical hours per week.

RESP 2200 Cardiopulmonary Diagnostics 3.00 CR
Course provides in-depth review of pulmonary function studies such as spirometry, lung volumes and diffusing capacities, bronchial provocation testing, and bronchodilator response studies. Blood gas analysis and interpretation of arterial, capillary, and mixed venous blood gases are presented with an emphasis on case-based learning and application of diagnostic findings to initiating or modifying patient care. Cardiac assessments and interventions such as EKGs, echocardiography, IABP support, and hemodynamics including Swan-Ganz and arterial catheters are introduced. Prerequisite: Acceptance into the respiratory therapy program is required. 3 lecture hours per week.

RESP 2300 Intro to Mech Ventilation 3.00 CR
Course provides theory and clinical indications of all modes of ventilatory support. Emphasis is on the 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. Course includes application of CPAP, BiPAP, negative pressure ventilation, and positive pressure ventilation. Course also introduces students to ventilators used in extended care or home care. Prerequisite: Acceptance into the respiratory therapy program is required. Corequisites: RESP 2301, and RESP 2310. 3 lecture hours per week.

RESP 2301 Lab/Adult Mechanical Ventilati 2.00 CR
Students practice skills associated with selecting the appropriate mode of mechanical ventilation 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. Prerequisite: Acceptance into the respiratory therapy program is required. Corequisites: RESP 2300, and RESP 2310. 4 lab hours per week.

RESP 2310 Clinical Practice II 5.00 CR
Students practice skills associated with selecting the appropriate mode of mechanical ventilation 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. Prerequisite: Acceptance into the respiratory therapy program is required. Corequisites: RESP 2300, and RESP 2301. 15 clinical hours per week.

RESP 2400 Alt Site & Subacute Resp Care 1.00 CR
Course introduces students to the practice of respiratory care in a home care/DME setting, pulmonary rehabilitation, patient education, smoking cessation, asthma management, and sleep disorders including sleep apnea. Prerequisite: Acceptance into the respiratory therapy program is required. 1 lecture hour per week.

RESP 3005 Critical Care/ACLS 3.00 CR
Course expands on basic skills acquired in previous respiratory therapy courses and focuses on the presentation and management of patients in the ICU and emergency settings. Course emphasizes patient assessment and procedures involved in resuscitation including current practices in advanced life support. Prerequisite: Acceptance into and completion of the first two semesters of the respiratory therapy program is required. Corequisites: RESP 2301. 3 lecture hours per week.

RESP 3020 Neonatal/Pediatric Resp Care 2.00 CR
Course introduces theory and practice of pediatric and neonatal respiratory care, including specific anatomy, physiology and pathophysiology associated with neonates and children. Assessment, management, and ventilatory techniques and equipment specific to infants and children are included. Pharmacology, including medications and dosages specific to infants and children, and ventilatory modes such as HFJV and oscillation ventilation, are introduced. Prerequisite: Acceptance into and completion of the first three semesters of the respiratory therapy program is required. Corequisites: RESP 3021, and RESP 3100. 2 lecture hours per week.

RESP 3021 Lab Pract/Neonatal Care 2.00 CR
Course provides 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. Prerequisite: Acceptance into the respiratory therapy program and completion of first three semesters is required. Corequisites: RESP 3020, and RESP 3100. 4 lab hours per week.

RESP 3100 Clinical Practice III 5.00 CR
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. Prerequisite: Acceptance into and completion of the first three semesters of the respiratory therapy program is required. Corequisites: RESP 3020, and RESP 3021. 20 clinical hours per week.

RESP 3150 Critic Thinking Sem/NBRC Rev 2.00 CR
Course utilizes terminal credentialing examinations (C.R.T., R.R.T Written Exam,
and R.R.T. Clinical Simulation Exam) as the basis for a comprehensive curriculum review. 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: Acceptance into and completion of the first three semesters of the respiratory therapy program is required. 2 lecture hours per week.

RESP 3201 Lab Pract/Neonatal Care 2.00 CR
Course provides 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. Prerequisite: Acceptance into the respiratory therapy program and completion of first three semesters is required. Corequisite: RESP 3020, and RESP 3100. 4 lab hours per week.

SECONDARY EDUCATION (SCED)

SCED 3720 Read/Write in Content Areas 3.00 CR
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). Practicum required. Prerequisite: Admission into the Dixie State College Secondary Education Teacher (SET) program. 2 lecture and 2 practicum hours per week.

SCED 4100 Core/Instruction/Assessment 3.00 CR
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 unravel 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). Practicum required. Prerequisite: Admission into the Dixie State College Secondary Education Teaching (SET) program. 2 lecture hours and 2 practicum hours per week.

SCED 4600 Classroom Management 3.00 CR
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). Practicum required. Prerequisite: Admission to the Secondary Education Teaching (SET) program. 2 lecture and 2 practicum hours per week.

SCED 4700 Content Methods Course 3.00 CR
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 (7-12th) learning environments. Lecture, 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. Practicum included. Prerequisite: Admission to the Secondary Education Teaching (SET) program. 2 lecture hours and 2 practicum hours per week.

SCED 4900 Secondary Student Teaching 10.00 CR
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. Must be taken concurrently with SCED 4089. Prerequisite: Admission to the Secondary Education Teaching (SET) program. 40 hours per week.

SCED 4989 Student Teaching Seminar 2.00 CR
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. Must be taken concurrently with SCED 4900. Prerequisite: Admission to the Secondary Education Teaching (SET) program. 2 lecture hours per week.

SCIENCE (SCI)

SCI 1001 Introduction to the Sciences 1.00 CR
SCI 1001 is an orientation course designed to help students succeed in science courses, as well as other courses at Dixie State College. One of the main goals of the course is to help new freshmen and returning students make a successful transition to being a college student. Topics covered will include strategies for reading textbooks, writing papers, studying, taking exams, talking to your professors; information about campus resources such as the Financial Aid Office, Tutoring Center, Library, Advisement Office, and Disability Resource Center; learning what science is and some of the career paths one can take in science; discussing peer interactions and professional networking; navigating the registration process; and gaining an appreciation for non-academic activities on campus. 2 lecture hours per week.

SOCIOLOGY (SOC)

SOC 1010 Intro to Sociology *SS 3.00 CR
For sociology majors and students wishing to fulfill the general education social science requirement. Teaches the student 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. A lecture course that may include guest speakers, films, other media, writing assignments, specialized reading assignments, and examinations. 3 lecture hours per week.

SOC 1200 Sociology of the Family *SS 3.00 CR
For sociology majors and students wishing to fulfill the general education social science requirement. Teaches students what sociology is and how sociology is applied to the study of families. The course covers many different aspects of families 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. A lecture course that may include guest speakers, films, other media, writing assignments, and examinations. 3 lecture hours per week.

SOC 1810 Sociology Work Experience 1.00 - 3.00 CR
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. Fall section.

SOC 1810 Sociology Work Experience 1.00 - 3.00 CR
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 reg-
Course Descriptions

SPANISH (SPAN)

SPAN 1000 Fundamentals of Spanish 3.00 CR
Inservice class for Washington County School District teachers. Class will expose students to fundamentals of Spanish, emphasizing communication skills for classroom needs. Class will also deal with cultural needs of students. Designed specifically for teachers with little or no previous Spanish experience. Instructor permission required. 3 lecture hours per week.

SPAN 1010 Begin Spanish I *FL 4.00 CR
For beginning students interested in the Spanish language. Emphasis on gaining communicative competence by focusing on the development of listening, speaking, comprehension, reading, and writing skills. Discussion of Hispanic culture is also a component of the course. Several teaching methods are employed, including total physical response (TPR), lecture, drill practice, conversation exchanges, videos, lab tapes, and group work. This course, along with one other Spanish course, will fulfill the Foreign Language requirement for students to receive an Associate of Arts degree. Successful completers are prepared to take Spanish 1020. 4 lecture hours per week.

SPAN 1020 Beg Spanish II *FL 4.00 CR
For students interested in the Spanish language who have completed Spanish 1010 or who have equivalent experience (approximately two years of high school Spanish). Students using 1020 as an entry level class may receive vertical credit for Spanish 1010 upon passing 1020 with a C grade or higher. Continued emphasis on developing communicative skills is the focus of this class, including speaking, listening, reading, and writing. Several teaching methods are employed, including conversation activities, lecture, drill practice, videos, lab tapes, and group work. This course, along with one other Spanish course, will partially qualify students to receive an Associate of Arts degree. Prerequisite: Recommended background to register for Spanish 1020 is successful completion of Spanish 1010 or four to five years of high school Spanish, or equivalent experience. Direct questions to Addison Everett at 652-7810. 4 lecture hours per week.

SPAN 2010 Intermediate Spanish I *FL 4.00 CR
This course is taught fall semester only. For intermediate-level students who have taken Spanish 1020, or for students who have had equivalent experience (four or more years of high school Spanish). Normally, students who have had an extended experience abroad should not register for this series of classes; instead, they should register for Advanced Spanish classes. Students who begin their Spanish studies at the intermediate levels may receive vertical credit for the beginning level classes if they receive a C grade or higher. Continued emphasis on communicative competence, including speaking activities, listening development, reading authentic materials, and writing. A variety of teaching methods are employed, including role-play and small group activities, discussion of reading materials, and videos. This course, along with one other Spanish course, will partially qualify students to receive an Associate of Arts degree. Successful completers are prepared to take Spanish 2020. Prerequisite: Recommended background to register for Spanish 1010 is successful completion of Spanish 1020, three to four years of high school Spanish or equivalent experience. Refer questions to Addison Everett at 652-7810. 4 lecture hours per week.

SPAN 2020 Intermediate Spanish II *FL 4.00 CR
This course is taught spring semester only. For intermediate-level students who have taken Spanish 2010. Students who begin their Spanish studies at the intermediate levels may receive vertical for the beginning level classes if they receive a C grade or higher. Continued emphasis on communicative competence, stressing the four productive and receptive skills. Grammatical structures will be reviewed, conversation will be emphasized, and reading and writing will receive increased focus. A variety of teaching methods are employed, including drills, videos, conversational activities, reading, and lecture. This course, along with one other Spanish course, will partially qualify students to receive an Associate of Arts degree. Prerequisite: Recommended background to register for Spanish 2020 is successful completion of Spanish 2010, four to five years of high school Spanish, or equivalent experience. Direct questions to Addison Everett at 652-7810. 4 lecture hours per week.

SPAN 2990 Seminar in Spanish 0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, 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, along with one other Spanish course, will partially qualify students to receive an Associate of Arts degree. Prerequisite: Instructor permission.

SPAN 3020 Social Psychology 3.00 CR
An advanced course for students wishing to major in a social science. Covers such topics as affiliation, attitudes, social perception, conformity, authoritarianism, group dynamics, and leadership. Individual behavior in small groups and small group dynamics have special emphasis. Prerequisite: SOC 1010 or PSY 1010. 3 lecture hours per week.

SOC 1820 Sociology Work Experience 1.00 - 3.00 CR
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. Summer section.

SOC 2990 Seminar in Sociology 0.50 - 3.00 CR
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.

SOC 3020 Social Psychology 3.00 CR
An advanced course for students wishing to major in a social science. Covers such topics as affiliation, attitudes, social perception, conformity, authoritarianism, group dynamics, and leadership. Individual behavior in small groups and small group dynamics have special emphasis. Prerequisite: SOC 1010 or PSY 1010. 3 lecture hours per week.
Course Descriptions

SPAN 3060 Adv Grammar, Culture, Comp I 3.00 CR
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 ialaecal uses of grammar. Critical and creative writing with emphasis on summaries, narratives, and descriptions of a factual nature, and supported opinion. Authentic materials promote the understanding of Hispanic cultures. Prerequisite: SPAN 3020 or equivalent experience. 3 lecture hours per week.

SPAN 3070 Adv Grammar, Culture, Comp II 3.00 CR
Second semester of Advanced Grammar, Culture and Composition. This course 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 2020 or equivalent experience. 3 lecture hours per week.

SPAN 3200 Business Spanish 3.00 CR
An 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. 3 lecture hours per week.

SPAN 3390 Understanding Spanish Lit 3.00 CR
Readings in modern Hispanic literature, focusing on formal literary analysis. For clarification, the literature may be Spanish Peninsular or Latin America. 3 lecture hours per week.

SPAN 3580 Contemporary Issues 3.00 CR
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. 3 lecture hours per week.

SPAN 3950 Hispanics in US/Service Lrng 3.00 CR
In this advanced Spanish course we will look 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 be able to 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. This course will also increase cultural awareness and heightened sensitivity for immigrant issues. Prerequisite: SPAN 3060. Average of 1 lecture hour per week plus service hours at a rate of 2 hours per credit per week.

SPAN 3990 Seminar in Spanish 0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, 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.

SPAN 4550 Iberian Culture & Civilization 3.00 CR
A course on the cultural history of Spain from the Middle Ages to the present. This course will examine Spanish culture including Spain’s 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 our own and that of other Western European nations. Prerequisite: SPAN 3060 or equivalent experience. 3 lecture hours per week.

SPAN 4610 Survey of Peninsular Lit I 3.00 CR
Survey of selected periods and themes in Spanish literature. This course focuses on the 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, and videos. The internet will be used to access materials from the database of Cervantes Virtual. Prerequisite: SPAN 3060. 3 lecture hours per week.

SPAN 4620 Survey of Peninsular Lit II 3.00 CR
Second semester survey of Spanish Peninsular literature. This course focuses on the 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 3060. 3 lecture hours per week.

SOCIAL SCIENCE (SS)

SS 1001 Orientation/SocSci/Behav Sci 1.00 CR
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. 1 lecture hour per week.

STUDENT SUPPORT CENTER (SSC)

SSC 1001 Stu Support Serv Smart Start 1.00 CR
This course is designed for DSC freshmen students enrolled in Student Support Services to ease their transition to college by providing them with the skills and information necessary to be successful students and productive citizens. Their college experience will be enriched by learning about the major/career decision making process, including self-assessment, evaluation of majors and careers, and by the implementation of a personal and academic action plan in order to achieve their academic goals. Students will also learn the ountain of self reliance and the skills necessary to becoming self-sufficient. Instructor permission required. 1 lecture hour per week.

SSC 1050 Returning Adult Forum 1.00 CR
A forum class organized for Re-entry students who are beginning or re-entering college following a break in their formal education. A series of lectures is offered to help re-entry students adapt to an 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. The class may be repeated for 2 credits maximum.

SSC 1200 Career Planning Seminar 1.00 CR
A seminar 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. The Career Planning Seminar assists students in making relevant and realistic career decisions by using current assessment tools and decision making process. 1 lecture hour per week.

SSC 1300 Student Ambassador Ldrship I 1.00 CR
For all students who are appointed as Student Ambassadors, working with the School Relations Office. Surveys leadership techniques, procedures and communication skills essential to student body leadership with special emphasis on representing Dixie State College to prospective students. 45 hours of student involvement, attendance and activity.

SSC 1310 Student Ambassador Ldrship II 1.00 CR
For all students who are appointed as Student Ambassadors, working with the School Relations Office. Surveys leadership techniques, procedures and communi-
cation skills essential to studentbody leadership with special emphasis on represent-
ing Dixie State College to prospective students. 45 hours of student involvement, attendance and activity.

SSC 1320 Student Ambassador Ldrship III 1.00 CR
For all students who are appointed as Student Ambassadors, working with the School Relations Office. Surveys leadership techniques, procedures and communication skills essential to studentbody leadership with special emphasis on representing Dixie State College to prospective students. 45 hours of student involvement, attendance and activity.

SSC 1350 Student Gvmt Leadership I 1.00 CR
For all members of the ASDSC (Associated Students of Dixie State College) executive council and class officers, and for club presidents. Surveys leadership techniques, procedures, and communication skills essential to studentbody leadership with special emphasis on the government of Dixie State College. 45 hours of student involvement, attendance and activity.

SSC 1360 Student Gvmt Leadership II 1.00 CR
For all members of the ASDSC (Associated Students of Dixie State College) executive council and class officers, and for club presidents. Surveys leadership techniques, procedures and communication skills essential to studentbody leadership with special emphasis on the government of Dixie State College. 45 hours of student involvement, attendance and activity.

SSC 1370 Student Gvmt Leadership III 1.00 CR
For all members of ASDSC (Associated Students of Dixie State College) executive council and class officers, and for club presidents. Surveys leadership techniques, procedures and communication skills essential to studentbody leadership with special emphasis on the government of Dixie State College. 45 hours of student involved, attendance and activity.

SSC 1400 Student Alumni Leadership 1.00 CR
For all members of Student Alumni Association (SAA) 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. This course requires 45 hours of student involvement, attendance and activity. This course is repeatable for up to 2 credits. 1 lecture hour per week.

SSC 2990 Seminar in Student Services 0.50 - 3.00 CR
For students seeking 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.

STAT 2040 Business Statistics 4.00 CR
This course is an introduction to basic statistical reasoning. Statistical reasoning is crucial to understand decision making in a world of uncertainty. The course begins with a general discussion of data distributions and descriptive statistics. The likelihood of events occurring is then covered under the topics of probability and probability distributions, and sampling distributions. All of these principles will help the student understand how inferential statements about a population can be implied based solely on a sample of data. Inferential methods covered will include tests of hypotheses, analysis of variance, Goodness of Fit, and regression. Prerequisites: CIS 1200 and MATH 1010. 4 lecture hours per week.

STAT 3200 Advanced Statistical Methods 3.00 CR
A survey of theory and practice of statistical research design. Students will learn qualitative and quantitative research design methods and will conduct analysis using statistical software. Prerequisite: STAT 2040 and advanced standing in the business baccalaureate program. 3 lecture hours per week.

SURGICAL TECHNOLOGY (SURG)

SURG 1050 Surgical Technology 15.00 CR
This course combines a basic introduction to the fundamentals associated with the surgical environment with experience in lab and clinical settings. Among the areas covered are: 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. Students will be introduced to surgical set-ups for different surgical specialties. Prerequisites: Acceptance into Surgical Technology Program. Corequisites: SURG 1055 and SURG 1060. 6 Lecture hours per week.

SURG 1055 Surgical Technology Lab 0.00 CR
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. Corequisites: SURG 1050 and SURG 1060. 4 lab hours per week.

SURG 1060 Surgical Technology Clinic 0.00 CR
Surgical Technology Clinic is the application of the knowledge learned in the class room and lab while working with a designated preceptor. Students are able to demonstrate and perform previous competencies: Dressing in proper surgical attire, performing basic hand washing, handling supplies for surgical procedures, turn-over activities, operating sterilization equipment, obtaining supplies, creating and maintaining sterile field, performing surgical hand scrub, and anticipating needs of the sterile team. Clinical day and weeks have specific goals. The goals are designed to compliment the topics learned and put them into immediate practice in the clinical setting. Corequisites: SURG 1050 and SURG 1055. 20 clinical hours per week.

SURG 1070 Advanced Surgical Technology 15.00 CR
This course is a continuation of SURG 1050 Surgical Technology. Students will be introduced to the surgical technologist role and responsibility in specialized surgical procedures, which include review of surgical anatomy, and specific procedures and setups. Areas of focus are: diagnostic procedures, general surgery, obstetrics, gynecologic surgery, ear/nose/throat surgeries, oral and maxillofacial surgeries, ophthalmic surgery, plastic reconstructive surgery, genitourinary surgery, orthopedic surgeries, cardiovascular/peripheral vascular surgeries, neurosurgical thoracic surgeries. Prerequisites: SURG 1050, SURG 1055, SURG 1060. Corequisites: SURG 1075 and SURG 1080. 6 lecture hours per week.

SURG 1075 Advanced Surgical Tech Lab 0.00 CR
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. Corequisites: SURG 1070 and SURG 1080. 4 lab hours per week.

SURG 1080 Advanced Surgical Tech Clinic 0.00 CR
This course is a continuation of SURG 1060, Surgical Technology Clinic. Clinical experiences will reflect skills learned the first semester 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 thoracic surgeries. Corequisites: SURG 1070 and SURG 1075. 20 clinical hours per week.
Course Descriptions

TECHNOLOGY (TECH)

TECH 1000 Skills USA 1.00 CR
Vocational Industrial Clubs of America (VICA) This course is designed for the vocational major. Six levels of Professional Development Program curriculum materials are used in classroom instruction. Workbook use includes self-assessment, goal setting and industrial workplace inquiries. Completion of 1 1/2 workbooks each semester is expected. Class can be repeated. Successful completers should be able to better enter leadership roles in industry. The VICA Club is a service organization as well and participates in all Dixie College student club activities. Vocational majors compete in state and national competitions. Class can be taken with TECH 1010 during the same semester.

TECH 1010 Skills USA Competition Prep 1.00 CR
Enrolled students will receive instruction in competition requirements and procedures. Past competitors and industrial mentors will assist competitors in their competition preparation. Students participating in DEMO contests will present their demonstration to the class, past competitors, and mentors for evaluation and perfection. First place winners at state competition compete at nationals. The VICA Club is a service organization as well and participates in all Dixie College Student club activities. Vocational majors compete in state and national competitions. Class can be taken with TECH 1000 during the same semester.

THEATRE (THEA)

THEA 1013 Intro to Theatre *FA 3.00 CR
For all students seeking to fill the general education fine arts requirement. Teaches the components of the live theatre production process, including producing, playwriting, directing, acting, designing and critiquing. Emphasizes the appreciation skills needed to become a discriminating audience member. Not a performance class. Uses textbook reading, lecture, media, demonstration and discussion. Quizzes, tests and exercises may also be used. Students are required to attend live theatre productions at Dixie College Theatre or at other production venues. Successful student completers will be more discerning and sensitive theatre audience members. 3 lecture hours per week.

THEA 1023 Understanding Movies *HU 3.00 CR
For students in all disciplines who enjoy watching popular films and would like to increase their understanding of the film making art. This course satisfies a general education requirement in the humanities. It explores film making techniques, aesthetic issues, and the function of film criticism. Students will view films, from silent films to the present (gaining a feeling for film history), and will examine, discuss, and write about various aspects such as plot, theme, character, and setting. Lab required. 3 lecture hours and 2 lab hours per week.

THEA 1025 Understanding Movies Lab 0.00 CR
A lab course to be taken concurrently with THEA 1023.

THEA 1026 Understand Movies Freshman Sem 4.00 CR
For students who have not declared a major and who wish to fill the freshman experience and the general education humanities requirements. Course explores film making 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. The freshman seminar component of the course includes career exploration activities as well as in-depth examination of study skills and campus services geared to expedite entering freshmen's transition to college life. Lab required. 4 lecture hours per week.

THEA 1027 Understanding Movies Lab 0.00 CR
A lab course to be taken concurrently with THEA 1026.

THEA 1035 Acting I 3.00 CR
For all students interested in acting for the stage. Required for theatre majors. Elective credit. Teaches basic elements of characterization, including character analysis, movement, vocal characterization and establishment of emotion. Emphasizes performance skill development. Uses textbook reading, lecture, demonstration and discussion. Quizzes, tests and exercises may also be used. Students prepare and perform three to six scenes. Group work is required. This course should prepare students to perform in Dixie State College Theatre productions and to enroll in THEA 2033, Beginning Acting II. Is a prerequisite to THEA 2033. 2 lecture and 2 lab hours per week.

THEA 1050 Intro/Visual Arts Theatre 3.00 CR
Teaches understanding of the technical components of theatre, including set, costume and makeup design and production. Emphasizes design theory and appreciation. Uses textbook reading, lecture, media, demonstration and discussion. Laboratory opportunities are available. Quizzes, tests and exercises may also be used. Students are required to attend live theatre productions at Dixie College Theatre or at other production venues. Students who complete this course will have a foundation understanding and appreciation of technical theatre elements. 3 lecture hours per week.

THEA 1113 Voice and Diction 3.00 CR
Designed for speech therapists, radio/TV, theatre performance and vocal music majors and all students seeking to improve articulation and increase control of the speaking voice. Teaches the basic mechanics of speech production, including respiration, phonation, resonance and articulation. Teaches the Lessac methodology. Uses textbook reading, lecture, media, demonstration, discussion and individual performances. Quizzes, tests and exercises may also be used. Emphasizes basic skill development. Students who complete this course will be prepared to enroll in THEA 2113, Intermediate Voice. Elective credit. Is a prerequisite to THEA 2113, Intermediate Voice and Diction. 3 lecture hours per week.

THEA 1150 Theatre Workshop: Performance 0.50 - 1.00 CR
For all freshmen desiring to participate in Dixie College Theatre productions. Required for theatre majors. Elective credit. May be repeated for credit. Teaches practical production skills in designated areas, using actual productions as the learning laboratory. Written analyses and evaluations may also be used. Emphasizes development of personal discipline and collaborative skills. Theatre Workshops should prepare students for entry level involvement in community, summer stock and other pre-professional theatre productions. Can be repeated for credit. Prerequisite: Audition or instructor permission. 0 lecture hours and variable lab hours per week.

THEA 1160 Theatre Workshop: Costumes 0.50 - 1.00 CR
For all freshmen desiring to participate in Dixie College Theatre productions. Required for theatre majors. Elective credit. May be repeated for credit. Teaches practical production skills in designated areas, using actual productions as the learning laboratory. Written analyses and evaluations may also be used. Emphasizes development of personal discipline and collaborative skills. Theatre Workshops should prepare students for entry level involvement in community, summer stock and other pre-professional theatre productions. Can be repeated for credit. Audition or instructor permission. 0 lecture hours and variable lab hours per week.

THEA 1170 Theatre Workshop: Sets 0.50 - 1.00 CR
For all freshmen who wish to participate in Dixie College Theatre productions. Required for theatre majors. Elective credit. May be repeated for credit. Teaches practical production skills in designated areas, using actual productions as the learning laboratory. Written analyses and evaluations may also be used. Emphasizes development of personal discipline and collaborative skills. Theatre Workshops should prepare students for entry level involvement in community, summer stock and other pre-professional theatre productions. Can be repeated for credit. Audition or instructor permission. 0 lecture hours and variable lab hours per week.

THEA 1180 Theatre Workshop: Lights 0.50 - 1.00 CR
For all freshmen who wish to participate in Dixie College Theatre productions. Required for theatre majors. Elective credit. May be repeated for credit. Teaches practical production skills in designated areas, using actual productions as the learning laboratory. Written analyses and evaluations may also be used. Emphasizes development of personal discipline and collaborative skills. Theatre Workshops should prepare students for entry level involvement in community, summer stock and other pre-professional theatre productions. Can be repeated for credit. Prerequisite: Audition or instructor permission. 0 lecture hours and variable lab hours per week.

THEA 1223 Stage Makeup 3.00 CR
For all students interested in stage makeup. Required for theatre majors. Elective credit. Teaches theory and skills of basic stage makeup, including straight makeup, character makeup, clown makeup and age makeup. Uses textbook reading, lecture, media, demonstration and discussion. Quizzes, tests and exercises may also be used.
Course Descriptions

Students complete seven actual makeup projects in a laboratory setting. Production opportunities are available. Students who complete the course should be prepared to assist with makeup application for Dixie College Theatre productions and other pre-professional productions. Lab fee required. 1 lecture hour and 3 lab hours per week.

THEA 1513 Stage Craft 3.00 CR
For all students who wish to develop technical theatre production skills. A fundamental course in Theatrical Production techniques and methods focusing on the practices in stage set construction. Uses textbook readings, lecture, media, demonstration, discussion and practical projects. Students who complete this class should be prepared to assist in set construction in college, community theatre and other pre-professional productions. 2 lecture and 2 lab hours per week.

THEA 1550 Costume Design I 3.00 CR
Building upon the skills learned in THEA 2203: Costume Crafts, the student will be instructed in the skills and techniques used in taking a theatrical production from pre-production concept, to historical, character and fabric research, to design conferencing, and culminating in producing finished costume renderings. 3 lecture hours per week.

THEA 1713 Script Analysis 3.00 CR
An introductory course focusing on plot, character, language, thematic analysis and dramaturgy of various historical and modern performance texts in the context of contemporary staging and performance practices. 3 lecture hours per week.

THEA 1800 Theatre Work Experience 1.00 - 3.00 CR
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. Fall section.

THEA 1810 Theatre Work Experience 1.00 - 3.00 CR
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. Spring section.

THEA 1820 Theatre Work Experience 1.00 - 3.00 CR
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. Summer section.

THEA 1900 Priv Appl Theatre: Acting 1.00 CR
Private acting lessons designed for the performance major or the general education student seeking to increase skills in theatrical performance either to satisfy immediate goals or to explore the possibilities of majoring in theatre. Course may be repeated for credit. Lab fees required. 1 lab hour per week.

THEA 2033 Acting II 3.00 CR
A continuation of THEA 1033. Teaches elements of acting with an emphasis on characterization and scene study using Meisner methodology. Emphasizes performance skill development. Uses textbook reading, lecture demonstration and discussion. Quizzes, tests and exercises may also be used. Students prepare and perform three to six scenes. Group work is required. This course should prepare students to perform in Dixie State College Theatre productions and other pre-professional productions and to enroll in THEA 2043, Second Year Acting I. Is a prerequisite to THEA 2043. Prerequisite: THEA 1033. 2 lecture hours and 2 lab hours per week.

THEA 2043 Acting III 3.00 CR
A continuation of THEA 2033. Teaches elements of acting with an emphasis on performance skill development. Uses textbook reading, lecture, demonstration and discussion. Quizzes, tests and exercises may also be used. Students prepare and perform four to eight scenes. Emphasis on audition, resume and interview preparation. This course should prepare students to perform in Dixie State Theatre productions, transfer auditions and pre-professional productions and to enroll in THEA 2053, Classical Acting. Is a prerequisite for THEA 2053. Prerequisite: THEA 2033. 3 lecture hours per week.

THEA 2053 Classical Acting 3.00 CR
Intermediate preparation for the performance of classical texts, including Greek and Shakespearean works. Emphasis on text analysis and scansion, rhetoric, speech, movement, and character development, and performance techniques. Prerequisite: THEA 2043. 3 lecture hours per week.

THEA 2093 Theatre Internship I 1.00 - 4.00 CR
For lower-division 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. Students will refine skills from among the following: performance, costuming, set construction, lights, sound, wardrobe, stage make-up, properties, box office work, assistant directing or management, and stage management. Instructor permission required. Prerequisite: Audition/Interview. 3-12 practicum hours per week.

THEA 2113 Internm Voice & Diction 3.00 CR
A continuation of THEA 1113. Reinforces vocal health lessons while developing additional strength and versatility through the study and performance of various accents and dialects. Instruction in the International Phonetic Alphabet and Lessac methodology. Emphasizes performance skill development through scene study and performance. Uses textbook readings, lecture, media, demonstration, discussion and individual performance. This course should prepare students to perform in Dixie State College Theatre productions and other pre-professional productions. Prerequisite: THEA 1113. 3 lecture hours per week.

THEA 2150 Theatre Workshop: Performance 0.50 - 1.00 CR
For all sophomores who wish to participate in Dixie College Theatre productions. Teaches practical production skills in designated areas, using actual productions as the learning laboratory. Written analysis and evaluations may also be used. Emphasizes development of personal discipline and collaborative skills. Theatre Workshops should prepare students for entry level involvement in community, summer stock and other pre-professional theatre productions. Elective credit. Can be repeated for credit. Prerequisite: Audition or instructor permission. Variable lab hours per week.

THEA 2160 Theatre Workshop: Costumes 0.50 - 1.00 CR
For all sophomores who wish to participate in Dixie College Theatre productions. Teaches practical production skills in designated areas, using actual productions as the learning laboratory. Written analysis and evaluations may also be used. Emphasizes development of personal discipline and collaborative skills. Theatre Workshops should prepare students for entry level involvement in community, summer stock and other pre-professional theatre productions. Elective credit. Can be repeated for credit. Prerequisite: Audition or instructor permission. Variable lab hours per week.

THEA 2170 Theatre Workshop: Sets 0.50 - 1.00 CR
For all sophomores who wish to participate in Dixie College Theatre productions. Teaches practical production skills in designated areas, using actual productions as the learning laboratory. Written analysis and evaluations may also be used. Emphasizes development of personal discipline and collaborative skills. Theatre Workshops should prepare students for entry level involvement in community, summer stock and other pre-professional theatre productions. Elective credit. Can be repeated for credit. Prerequisite: Audition or instructor permission. Variable lab hours per week.

THEA 2180 Theatre Workshop: Lights 0.50 - 1.00 CR
For all sophomores who wish to participate in Dixie College Theatre productions. Teaches practical production skills in designated areas, using actual productions as the learning laboratory. Written analysis and evaluations may also be used. Emphasizes development of personal discipline and collaborative skills. Theatre Work-
Course Descriptions

shops should prepare students for entry level involvement in community, summer stock and other pre-professional theatre productions. Elective credit. Can be repeated for credit. Prerequisite: Audition or instructor permission. Variable lab hours per week.

THEA 2203 Costume Construction 3.00 CR
A fundamental course in costume construction techniques and methods of stage costumes. Focusing on hand/machine sewing skills and applying the skill sets learned in class to the real theoretical productions of the department. Course fee required. 3 lecture hours per week.

THEA 2210 Scenic Design I 3.00 CR
For Theatre/Fine Arts majors and those looking for instruction in scenic design. This course teaches students how to apply script analysts and director concepts to the designing of scenery for theatrical productions. Uses a variety of teaching methods including lecture, exercises, two dimensional and three dimensional rendering, portfolios, and tests may also be used. The course prepares students for advanced design study and may lead to student design opportunities. 3 lecture hours per week.

THEA 2220 Children’s Theatre 3.00 CR
Theory and practice of theatre for child audiences, including plays, storytelling, masks, puppetry, creative dramatics and other forms. Examination of selection and adaptation of literature, producing, directing, acting, visual elements and production support. Emphasis on skill development. Course will make use of textbook and literature readings, practical projects. 3 lecture hours per week.

THEA 2230 Lighting Design I 3.00 CR
Introduces students to the mechanical aspects of stage lighting. The course is also designed to help the actor, director, technician and designer understand functions, psychology, and practical application of lighting design. Provides a basic understanding of light energy, angle, color and lighting technology. 3 lecture hours per week.

THEA 2240 Costume Design I 3.00 CR
The study of basic costume design for stage and construction techniques through script analysis, historical, character and textile research. Taking the student from pre-production concept, research, collaboration, and final design presentations. This course will enable students to realize theoretical costume design projects. 3 lecture hours per week.

THEA 2250 Independent Study Theatre 3.00 CR
For students seeking specialized training in theatre skills. Teaches practice of performance and theatre technology. Uses directed reading, coaching and projects. Emphasizes skill development. May include realized design and performance work in association with Dixie College Theatre or other performance venue productions. Students who complete this course should demonstrate skill development beyond the level provided in other Dixie College Theatre courses. Prerequisite: Instructor permission. Variable lab hours per week. Elective credit. Can be repeated for credit.

THEA 2900 Seminar in Theatre Arts 0.50 - 3.00 CR
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. Can be repeated for credit.

THEA 3035 Mus Studio: Musical Theatre 3.00 CR
For advanced acting students and those seeking instruction in musical theatre performance. Studies a variety of musical styles and teaches the skills and techniques needed to perform them successfully. Students will participate 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. Prerequisite: THEA 2033. 3 lecture hours per week.

THEA 3043 Acting Studio: Acting for Camera 3.00 CR
Acting Studio courses are for advanced theatre students wanting to specialize in performance. This course is for those seeking instruction in film acting techniques. It is designed to teach the student the techniques of film acting, the mechanics of filming, relationships with agents, on set etiquette and working with a director and crew. The course will use a variety of teachin techniques including reading, lecture, exercises, and on camera scene work. Students who actively participate will learn audition techniques, the mechanics of filming, how to scale their performance to the media, and progress in learning the simplicity of acting in front of the camera. Successful completion of the class prepares the student to begin auditioning for student and professional film projects. Acting Studio courses are taught in rotation, repeating every other year. Prerequisite: THEA 2033. 3 lecture hours per week.

THEA 3113 Accents and Dialects 3.00 CR
A continuation of THEA 1113. Reinforces vocal health lessons while developing additional strength and versatility through the study and performance of various accents and dialects. Instruction in the International Phonetic Alphabet and Lessac methodology. Emphasizes performance skill development through scene study and performance. Uses textbook readings, lecture, media, demonstration, discussion and individual performance. This course should prepare students to perform in Dixie State College Theatre productions and other pre-professional productions. Prerequisite: THEA 1113. 3 lecture hours per week.

THEA 3250 Sound Design 3.00 CR
This course is for Theatre/Fine Arts majors, and those seeking instruction in sound design. The course will focus on the sound design process and give practical understanding of the tools and technology used in mounting a design. The course will also work to develop an understanding of the artistic benefits of appropriate mood generation and the importance of using sound enhancement to create good performer-audience relationships. The course will make use of lectures, laboratory assignments, quizzes and practical exercises. The course will prepare the student to set up a basic sound system, execute minor repairs, and successfully execute a sound design. 3 lecture hours per week.

THEA 3260 Scene Painting 2.00 CR
Theory and application of basic scene painting/scenic artist techniques for theatre. Surface preparation, priming, base painting, blending and scumbling, texture and tailing lessons are applied in producing finished demonstration flats including wall surfaces, wallpaper, bricks, rocks, wood grain and molding, marble, foliage, and copying a selected original. For theatre design and technology students an other interested students. No prerequisites. Fee required. 2 lecture hours per week.

THEA 3300 Sound Technology 3.00 CR
This course is designed to teach students the components of a modern theatrical sound system. By completing this course students will receive the basic training in how to set up and operate audio systems, including most recording and playback components. 3 lecture hours per week.

THEA 3600 Directing I 3.00 CR
Theory and practice of the beginning principles of theatre directing, 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, staging scenes with student actors. Appropriate for individuals interested in learning the basic skills of directing for professional, community or educational theatre. Prerequisite: THEA 1713. 3 lecture hours per week.

THEA 3610 Directing II 3.00 CR
Theory and practice of the intermediate principles of theatre directing. Incorporating skills learned in THEA 3600 and applying them in the staging one-act plays with student actors. Appropriate for individuals interested in learning the basic skills of directing for professional, community or educational theatre. 3 lecture hours per week.

THEA 3720 Theatre History and Lit I 3.00 CR
This course examines Western Theatre from its beginnings through the Renaissance. In addition to dramatic texts, students examine the impact of performance spaces, aesthetic theories, religious beliefs, and the contemporary politics of a given era on the development of drama. 3 lecture hours per week.
THEA 3730 Theatre History and Lit II 3.00 CR
This course examines the literature and historical development of Western Theatre from the Renaissance to the 19th Century. In addition to dramatic texts, students examine the impact of performance spaces, aesthetic theories, religious beliefs, and politics of a given era on the development of drama. 3 lecture hours per week.

THEA 3740 Theatre History and Lit III 3.00 CR
This course examines the literature and historical development of 20th Century and Non-Western Theatre. In addition to dramatic texts, students examine the impact of performance spaces, aesthetic theories, religious beliefs, and politics of the era and cultures on the development of drama. 3 lecture hours per week.

THEA 3880 Stage Management 3.00 CR
Introduction to the creative and administrative work of a stage manager, including forms and formats, protocols, and roles of the stage manager in a university production. 3 lecture hours per week.

THEA 4033 Acting Studio: Mask 3.00 CR
Acting Studio courses are for advanced theatre students wanting to specialize in performance. Having completed the 1900 and 2000 level acting classes, students will then take a series of four courses designed to increase and expand their performance skills. Through construction and use of neutral and character masks, THEA 4033 will enhance the student’s specificity of movement, non-verbal communication, characterization, and ability to project a variety of emotional states. These courses will be taught in rotation, repeating every other year. Prerequisite: THEA 2033. 3 lecture hours per week.

THEA 4043 Stage Combat 3.00 CR
For acting students seeking both a knowledge of basic stage combat principles and an additional viewpoint of scene analysis and presentation. Studies a variety of stage combat techniques including movement, hand to hand, rapier/dagger, falls, pushes and kicks. Grading will be based on successful demonstration of the covered techniques. Practical application, text, demonstration and lecture will be used. Prerequisite for this course is Acting II (THEA 2033). 3 credit hours per week.

THEA 4093 Theatre Internship II 1.00 - 4.00 CR
For upper-division 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. Students will refine skills from among the following: performance, costuming, set construction, lights, sound, wardrobe, stage make-up, properties, box office work, assistant directing or management, and stage management. Instructor permission required. Prerequisite: Audition/Interview. 3-12 practicum hours per week.

THEA 4390 Costume History 3.00 CR
The course will cover the evolution of world costumes and clothing from 4000 BC to the present as it reflects on the sociocultural and socioeconomic aspects of the times, the individual garment characteristics of each period, and its application to costume design. 3 lecture hours per week.

THEA 4410 Scene Design II 3.00 CR
For theatre and integrated studies majors and other interested students. An advanced course emphasizing the development of the scenic design process through script, analysis, period researching, sketching, model making, and other related activities. The course results in significant portfolio development for successful students. Prerequisite: THEA 2210. 3 lecture hours per week.

THEA 4430 Lighting Design II 3.00 CR
This course is a more in depth look at light and how light functions from a designer’s viewpoint. This course will include advanced stage design principles, as well as designing for dance and film. Students in this course will also learn advanced technical skills such as automated lighting and drafting programs. Uses textbook, lecture, demonstration and practical application. Prerequisite: THEA 2230. 3 lecture hours per week.

THEA 4440 Costume Design II 3.00 CR
The advanced study of costume design for stage. Emphasis on costuming in terms of the total production concept including directorial approach, scenery, and lighting design. Exploring the more intricate aspects of costuming a theatrical production from first production meetings to opening night. Instruction in illustration and presentation methods necessary to communicate the characters and their costumes effectively. Prerequisite: THEA 2240. 3 lecture hours per week.

THEA 4500 Sound Design 3.00 CR
This course focuses on the creative aspect of audio production. In this course students will learn how to apply the elements of design to sound in creating an auditory environment for the stage. Students will learn the process of sound design in conjunction with Dixie State College production needs. Uses textbook, lecture, demonstration and practical application. Prerequisite: THEA 3500. 3 lecture hours per week.

THEA 4660 Survey of Period Styles/Decor 3.00 CR
For theatre majors and other interested students. An examination of styles and forms of architecture and decoration as these have evolved from ancient Greece to modern times. Students will learn to identify characteristics of major styles in connection with the social, economic, and political history of each period. Course uses reading, lecture, research, and project preparation as components in the learning experience. 3 lecture hours per week.

THEA 4890 Independent Study 1.00 - 3.00 CR
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. Instructor permission is required. Student 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. Can be repeated for credit. Variable credit hours per semester.

THEA 4980 Senior Project 3.00 CR
This senior capstone course requires students to demonstrate mastery of their studies within the Theater Degree curriculum by engaging in the successful performance of a work-related project and corollary research paper, artistic creation, and/or related portfolio. The intent is to allow the student an opportunity to illustrate his/her competency in theater skills as well as being able to apply those skills effectively. Instructor permission required.

TRAV 1591 Air Reservations/ONLINE 1.00 CR
Students will be able to gain the product knowledge and skills (with the exception of automated reservations) needed to research, plan, and book air travel. Students will learn the terminology, the policies and the procedures of airline travel and airline reservations. While the sale of air travel is no longer the major revenue producer for travel professionals, it is a vital part of the travel industry as the most used mode of transportation to business destinations, and highly used mode to vacation/leisure destinations. Therefore, becoming an expert on the product, airline policies and procedures, as well as reservation policies and procedures, is essential to each student’s success. Fee required.

TRAV 1592 Ground Transportation/ONLINE 1.00 CR
Students will find car rental a relatively simple product to sell and book. Commissions are reasonable. Seventy percent of North Americans travel by car while vacationing. Students will learn the basics of the product, policies, procedures, codes, pricing and distribution. Rail travel recaptures the image of a different time and appeals to many leisure travelers. This study focuses on Amtrak, VIA Rail, BritRail, and Eurail, the types of train accommodations, services, and fare structures. Fee required.

TRAV 1593 Hospitality/ONLINE 1.00 CR
Students will earn great commissions by the practice of booking client’s hotel accommodations. Opportunities will be provided for students to learn the basics of the hotel product, rate structure, property and room classifications, codes, published and automated resources, and non-automated reservation procedures. Students will learn how to identify guest’s preferences, learn the variables that affect prices, and to select the right hotel for any given client. An additional option avail-
able is to enjoy the hotel sales training program developed by Marriott, entitled Hotel Excellence. Fee required.

TRAV 1594 Vacation Packages/Tours/ONLINE 1.00 CR Fee required.

TRAV 1595 The Cruise Market/ONLINE 1.00 CR Cruise bookings are one of the fastest growing segments of the travel industry. Students will learn the basics of the cruise product, cruise classifications, destinations, and types of cruises, print resources and non-automated reservations procedures. Students will also learn how to identify their client’s needs and preferences, the variables that are available in cruising and how to select and book the right cruise for any given client. Fee required.

TRAV 1611 Automated Air Reserv/ONLINE 2.00 CR Students will become proficient in the automation systems used by airlines and their authorized agents. Students will learn and practice the basic functions of Sabre as used by travel professionals to plan and book air travel. Students will create multiple PNRs (passenger name records) as they master the basics of booking and maintaining clients air travel. Exercises and drills will improve student proficiency and speed. Students will use RTS, a hands-on simulation of Sabre, in conjunction with the online tutorial. The full RTS Sabre simulation program includes three courses available in a US version. Fee required.

TRAV 1621 Destination Geo/ONLINE 3.00 CR This course covers every country in the Western Hemisphere using outline maps. The course provides an understanding of basic geographical features from a travel and tourism perspective. Climate, weather, and land forms are included, as are the country capitals, population, religion, currency, electricity, language and tourist attractions. Fee required.

TRAV 1711 Travel Sales & Trends/ONLINE 2.00 CR Students will enjoy expected, as well as surprising, sales techniques and new approaches as they explore and practice using them. Telephone business manners, listening skills, and tools for targeting the traveler are among the topics included. Students will discover successful sales steps for telephone reservation agents as well as for the travel professionals working with clients one on one. Trends in the industry, including the use of the Web for a variety of travel resources, will be covered. This is an excellent introductory course. Fee required.

TRAV 1731 Air Travel US Dom/ONLINE 2.00 CR Students will learn airline 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. Students will practice the interpretation of multiple air transportation taxes and fees applicable to air travel. Airfares are historically difficult to interpret and apply. This course presents the basics in a simple format with many applications to allow students to become proficient in utilizing the basics in a simple format, with many applications. Fee required.

TRAV 1732 ARC Documents/ONLINE 1.00 CR This is a ticketing course. Air travel clients will need a ticket and boarding pass to board the aircraft at departure time. The airline tickets used for air travel in the United States are issued, controlled, and processed through an Area Settlement Plan administered by the Airline Reporting Corporation (ARC). This course will cover the ticketing types, forms, policies and procedures per the ARC, as well as, forms of payment, refunds and exchanges. Fee required.

TRAV 1771 Automated Airfares&Tic/ONLINE 1.00 CR Students will become proficient in the automation systems used by airlines and authorized agents as they continue to practice creating PNRs and add the skills of interpreting fare quote displays and rule displays, pricing and ticketing. Exercises and drills will improve student proficiency and speed. Students will use RTS, a hands-on simulation of Sabre in conjunction with the online tutorial. The full RTS Sabre simulation program includes three courses available in a U.S. version. Fee required.

TRAV 1772 Automated Car Rnt/Hotel/ONLINE 1.00 CR Students will become proficient in the automation systems used by airlines and their authorized agents. Students will add to their skills as they interpret car rental and hotel accommodation rates, availability, product and procedures displays, and book the reservations. Exercises and drills will improve student proficiency and speed. Students will use RTS, a hands-on simulation of Sabre in conjunction with the online tutorial. The full RTS Sabre program includes three courses available in a US version. Fee required.

TRAV 1800 Travel Work Experience 1.00 CR 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. Fall section.

TRAV 1810 Travel Work Experience 1.00 - 3.00 CR 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 on 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. Spring section.

TRAV 1820 Fares & Tickets Interna/ONLINE 2.00 CR International air travel has expanded exponentially in the past decade and promises to continue to grow. This course will provide students with the skills required to meet the needs of their international air travelers. These skills include an understanding of the two basic international farings systems, mileage and routing as well as currency procedures, including the use of the fictitious currency, Neutral Units of Construction. The student will learn to interpret all the data found in the faring and pricing information in the CRS and as printed on international tickets. This includes international fare basis codes, base fares, taxes, surcharges, currency codes and mileage principle coding as applicable. Fee required. Prerequisites: TRAV 1591 and TRAV 1731.

TRAV 1831 Fares & Tickets Interna/ONLINE 1.00 CR International air travel has expanded exponentially in the past decade and promises to continue to grow. This course will provide students with the skills required to meet the needs of their international air travelers. These skills include an understanding of the two basic international farings systems, mileage and routing as well as currency procedures, including the use of the fictitious currency, Neutral Units of Construction. The student will learn to interpret all the data found in the faring and pricing information in the CRS and as printed on international tickets. This includes international fare basis codes, base fares, taxes, surcharges, currency codes and mileage principle coding as applicable. Fee required. Prerequisites: TRAV 1591 and TRAV 1731.

VISUAL TECHNOLOGIES (VT)

VT 1300 Communication Design 3.00 CR This is an entry class for the visual technologies and CIT program. Explores the elements of design from which advertising, computer graphics, and graphic arts are structured. Builds awareness and skill in creating designs, using the concepts of composition, proportion, alignment, contrasts, white space, typography, eye movement, and element control. Emphasis is placed on the value of these concepts to communicate ideas. Prepares students for more advanced design projects using computer-based tools. No prerequisites required. 3 lecture hours per week.

VT 1400 Intro to Internet Development 3.00 CR Entry course for the visual technologies and CIT program. Provides a hands-on experience for students interested in internet development. Teaches fundamental web development skills including writing HTML code, planning and organizing website 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. No prerequisites required. 3 lecture hours per week.

VT 2500 Computer Illustration 3.00 CR For students pursuing a certificate in visual technology or a baccalaureate CIT degree. May also be used as an elective in an Associate Degree. Provides a hands-on
introduction and overview of advertising design and illustration techniques using the computer and popular PostScript-based computer illustration. Prepares students to create original artwork usable in multimedia, internet publishing, or desktop publishing. Homework assignments require access to computer with the designated software installed. May use Macintosh or PC-compatible computer. Prerequisite: VT 1300 with a C- or better. 3 lecture hours per week.

VT 2600 Creative Imaging 3.00 CR
Companion course to VT 2500. May be taken before, concurrently, or in linear sequence with VT 2500. For students pursuing a certificate in either Visual Technologies, an Associate Degree, or a CIT four-year degree. Provides a hands-on introduction and overview to computer photo-manipulation and designing graphics on the computer. Emphasis is on tools and techniques used for editing and retouching photographs and creating original images with photo-like qualities for use in advertising. Prepares students to create original artwork usable in multimedia, Internet publishing, desktop publishing, or video effects. Homework assignments require access to computer with the designated software installed. May use Macintosh or PC-compatible computer. Prerequisite: VT 1300. 3 lecture hours per week.

VT 2700 Typography 3.00 CR
A study of basic layout, lettering, type design, identification of styles and typographic history. Students learn 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. Prerequisite: VT 2500 with a C- or better. 3 lecture hours per week.

VT 2710 Advanced Typography 3.00 CR
Students will develop typographic solutions that explore verbal/visual messages. Projects include designs for publication (e.g., posters, brochures, packaging and graphic campaigns). Typography as a functional and experimental medium will be stressed. Design problem-solving for a diverse range of specifications, including audience, client needs and budget constraints, are included. Traditional and digital tools will be incorporated to produce final products. Prerequisites: VT2500 and VT2700, both with a C- or better. 3 lecture hours per week.

VT 2990 Seminar in Visual Technologies 0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, either students demand 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 approved by the department; second, it must provide for a minimum of nine contact hours of lab or lecture time 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 traditional lectures, travel and field trips, guest speakers, laboratory exercises, or other non-traditional instruction methods. Note that this course is elective and does not fulfill general education or program requirements. Prerequisite: Instructor permission.

VT 3000 Internet Publishing and Design 3.00 CR
Upper level curriculum for students pursuing a degree in Computer and Information Technology (CIT) or advanced skills in visual technologies or web development. Teaches internet publishing and design principles and concepts. Topics include interface design, PHP scripting, intermediate and advanced HTML, (Hyper-text Markup Language) techniques, Cascading Style Sheets, XML (Extensible Markup Language), JavaScript, QuickTime Virtual Reality (QTVR), and other advanced web publishing tools. Emphasis is on interface design and appropriate use of technologies in Internet development. Prerequisites: CS 1400, VT 1400, VT 2500, and VT 2600, all with a C- or better. 3 lecture hours per week.

VT 3100 Interactive Multimedia 3.00 CR
For students interested in authoring interactive multimedia presentations. Introduces the hardware and software used to integrate text, sound, graphics, animation, and video into rich-content multimedia projects. Course includes lecture, hands-on step-by-step examples, and assignments to be completed as homework. Students learn the process of creating multimedia projects through the use of various computer-based disciplines, including graphic design, digital video, interface architecture, and light OOP-structured programming. This is an upper division course in the CIT baccalaureate degree program, but it may also be used as an elective in an Associate Degree or the Visual Technologies certificate. Homework assignments require access to computer with the designated software installed. May use Macintosh or Windows-compatible computer.

Upon successful completion of this course, students should be able to create interactive multimedia presentations with professionally designed interfaces and rich content that is capable of delivery via a web browser or in a stand-alone application. Prerequisites: CS 1400, VT 2500 and VT 2600, all with a C- or better. 3 lecture hours per week.

VT 3200 Portfolio Preparation 3.00 CR
Advanced design course for the Visual Technologies program. Students will be taught advanced design principles to solve a variety of design problems. The emphasis in this class is the designing for commercial media including proper typographic and the use of type as a graphic element. The successful students will be prepared to deal with design issues and project management problems likely to be found in a work environment. Prerequisites: VT 2500, VT 2600 and VT 2700, all with a C- or better. 3 lecture hours per week.

VT 3300 Intro to Digital Video Editing 3.00 CR
Upper division course in the CIT baccalaureate degree program. May also be used as an elective in an Associate Degree or the Visual Technologies certificate. This course introduces students to essentials of editing video and audio with computers. Concepts are taught that may be applied to TV & video production, multimedia authoring, and/or Internet video streaming. Techniques are presented for digitizing video and audio from standard analogue sources or digital sources, selecting footage from source clips, constructing transitions, titling, creating and using alpha channel or other matte techniques, and other special effects as needed. Current hardware requirements/limitations and future technology developments will also be discussed. Upon successful completion of this course, students will be able to edit and assemble professional-grade video in either QuickTime or MPEG formats that will play on any computer or that will output to videotape. Prerequisites: CS 1400, VT 2500 and VT 2600, all with a C- or better. 3 lecture hours per week.

VT 3600 3-D Visualization 3.00 CR
Introduces student to three-dimensional modeling and rendering on the computer. Techniques for creating 3-D models, defining and applying textures, assembling scenes and rendering images will be. Gives students an additional computer-based tool to create realistic package and product designs, as well as exciting graphics for desktop or Internet publishing projects. This is an upper division course in the CIT baccalaureate degree program. It may also be used as an elective in an Associate Degree of the Visual Technologies certificate. Homework assignments require access to computer with the designated software installed. May use Macintosh or PC-compatible computer. Upon successful completion of this course, students should be able to create 3-D models of various complexities, then render still images and/or animation sequences for video, multimedia, or Internet web page content. Prerequisites: CS 1400, VT 2500, and VT 2600, all with a C- or better. 3 lecture hours per week.

VT 3700 Business for Graphic Designers 3.00 CR
The goal of this course is to convey business procedures related to the graphic design profession. Topics covered include professional/client relationships, time management, job cost analysis, contracts, general business management, marketing and business planning. Prerequisite: VT 1300. 3 lecture hours per week.

VT 3710 Advanced Typography 3.00 CR
Students will develop typographic solutions that explore verbal/visual messages. Projects include designs for publication (e.g., posters, brochures, packaging and graphic campaigns). Typography as a functional and experimental medium will be stressed. Design problem-solving for a diverse range of specifications, including audience, client needs and budget constraints, are included. Traditional and digital tools will be incorporated to produce final products. Prerequisites: VT2500 and VT2700, both with a C- or better. 3 lecture hours per week.

VT 3750 Graphic Design History 3.00 CR
This course is structured around a thematic approach to Graphic Design history and will provide a necessary historical basis for students. The course will involve lectures on design history, pioneering designers, design from other cultures and countries, graphic design artifacts, and the historical context for these topics. In addition to lectures, the course will involve videos, participatory exercises and discussion and essay writing, which will build critical thinking skills. Prerequisite: VT 2700 with a C- or better. 3 lecture hours per week.

VT 3780 Prepress and Print Production 3.00 CR
An overview course which discusses the impact of desktop publishing and digital imaging on the prepress industry. Topics include input and output; correct creation
Course Descriptions

VT 3800  Corporate Identity  3.00 CR
This course is for upper division students enrolled in the CIT and/or Business/VT emphasis degree. It is also designed for students who wish to develop the communication design for business use. This course will explore the history, psychology and purpose of corporate identity programs and the role of communication design in the current corporate environment. The student will analyze, investigate and report on current company corporate objectives and target markets and then design a sound multifaceted identity program to help them further reach their goals. Prerequisite: VT 2500 with a C- or better. 3 lecture hours per week.

VT 4000  Dynamic Web Development  3.00 CR
Upper level curriculum for students pursuing a degree in CIT or for individuals seeking advanced skills in visual technologies or web development. This course teaches dynamic web development using PHP an open source server side scripting environment and MySQL an open source database application. Topics include basic scripts and functions, variables, form processing, server side includes, web database integration, database design, database driven web sites, security, and web management systems. Prerequisite: VT 3000 with a C- or better. 3 lecture hours per week.

VT 4010  Interactive Web Development  3.00 CR
Course for students pursuing a degree in CIT. This course will instruct students in client-side web development using JavaScript. Topics include form validation, interactive web page development, DOM manipulation, client-side applications, and interaction with server-side applications. Students will be required to complete programming projects and web design applications. Prerequisites: CS 1410 and VT 3000, both with a C- or better. 3 lecture hours per week.

VT 4100  Adv Multimedia/Internet Integr  3.00 CR
Upper division course on the integration and application of multiple media with appropriate delivery systems. This course is for advanced students in the CIT baccalaureate degree program. Emphasis is on real-world projects using the full repertoire of graphics software that had been learned through previous courses in the Visual Technologies program. Portfolio-grade projects developed through this course will add credibility to a student’s job skills. There are significant homework assignments from which there will be a high expectation of quality work. Upon completion, students should have a solid grasp of how to develop and deliver content-rich projects with high production value. Prerequisite: VT 3100 with a C- or better. 3 lecture hours per week.

VT 4600  Senior Project  3.00 CR
For advanced CIT and Visual Technologies students with interest in creating professional commercial-grade projects. Emphasis is on applying skills learned in the CIT program to commercial projects in the workplace. Students will have opportunity to design or contribute to various private sector projects as well as campus internet projects, print, and multimedia projects (contingent on availability). Many high-end commercial art applications, programming projects, techniques, and technologies will be practiced. Portfolio development will be emphasized. Course is an individual workshop format, with one-on-one meetings with the instructor(s) to review project progress. Upon completion, students will have real-world experience and a higher expectation of their own creative talents. Prerequisites: VT 3000 and VT 3100, both with a C- or better and instructor permission required.

VT 4700  Publication Design  3.00 CR
Explores the creative, functional and aesthetic aspects of editorial design with emphasis on page layout. Upon completion of this course, students should be able 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. Prerequisites: VT 2500, VT 2600, and VT 2700, all with a C- or better. 3 lecture hours per week.

VT 4750  Package Design  3.00 CR
Students apply design principles in a 3-D form by creating containers for a variety of products. Emphasis is placed on promotion, impact, construction, display and function of the design; the course also aims to provide an understanding of market studies on design impact and effectiveness through the production of 3-D prototypes. Prerequisites: VT 2500, VT 2600, and VT 2700, all with a C- or better. 3 lecture hours per week.

VT 4900  Independent Research  1.00 - 3.00 CR
Independent research of readings in areas not fully covered by core or elective courses. Instructor permission required.

VT 4910  Senior Graphic Design Exhibit  3.00 CR
Under the guidance of the 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. Prerequisite: VT Senior in final semester and instructor approval.

VT 4920  Internship  1.00 - 3.00 CR
Internship course in Visual Technologies. Instructor permission required.

VT 4990  Seminar in Visual Technologies  0.50 - 3.00 CR
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, either students demand 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 approved by the department; second, it must provide for a minimum of nine contact hours of lab or lecture time 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 traditional lectures, travel and field trips, guest speakers, laboratory exercises, or other non-traditional instruction methods. Note that this course is elective and does not fulfill general education or program requirements. Prerequisite: Instructor permission required.