This chapter contains a listing of courses at the time of printing of the catalog. Courses are listed alphabetically. Not all courses will be available every semester or summer session. A Schedule of Courses is issued prior to each registration. It lists courses available for that semester or summer session. Students should consult the Schedule of Courses prior to each registration.

Winthrop University reserves the right to withdraw any course listed in the Schedule of Courses if the administration determines the course does not have an adequate enrollment. The university also reserves the right to establish limits on the enrollment for any course or course section. For the most current and up-to-date information on courses, please go to the Wingspan web page at https://wingspan.winthrop.edu.

For further information about courses listed in this chapter, consult the dean of the college or the chair of the department offering the course.

In this section, the following information is given about each course: the number; the title; the semester hour value; the number of clock hours per week required, if different from semester hour value; brief description; restriction of credit (if any); prerequisites or other restrictions on enrollment; and the semester the course is offered. If none is stated, the only restriction on enrollment is that indicated by the number of the course (see Classification of Courses below.)

The first of the figures enclosed in parenthesis immediately following the title of a course indicates the number of semester hours credit given for the course; the second and third figures (if given) indicate the number of lecture and laboratory (or studio) hours normally scheduled each week for one semester in the course. If only one figure is given, there are as many clock hours required per week as there are semester hours of credit for the course (unless the course description states otherwise.) For example, (3) indicates that the course carries three semester hours of credit and meets for three clock hours per week; (1:3) indicates that the course carries one semester hour credit but meets three clock hours per week; (4:2:4) indicates that the course carries four semester hours credit but meets two lecture hours and four laboratory (or studio) hours per week.

When two courses are listed as one, a hyphen(-) between the course numbers indicates the first is a prerequisite of the second. A comma $($,$) between the course numbers indicates that the first is not a prerequisite of the second.$

## Classification of Courses

Courses are classified by number:
101-299 beginning courses, primarily for freshmen and sophomores;
300-399 intermediate courses, primarily for sophomores and juniors;
400-499 specialized courses, primarily for juniors and seniors;
500-599 advanced courses, primarily for juniors, seniors and graduate students;
600-699 advanced courses for graduate students only (listed in the Graduate Catalog)

## Academy (ACAD)

101. Principles of the Learning Academy (1).

This is a required course for all freshmen during their first semester at Wintrhop. It introduces first-year students to the concepts, resources, and skills necessary for successful higher learning and facilitates students' adjustment to and engagement in the learning academy.
Notes: Offered in the fall and spring.

## Accounting (ACCT)

## 280. Accounting Information for Business Decisions I

 (3).This course is the first of a two-part course focusing on the business environment and the use of managerial and financial accounting information for decision making in various business settings. Hands-on integrated project that uses accounting concepts to help the student see the interrelation and interdependence of the various business functions.
Prerequisite(s): MATH 101 or CTQR 150 and CSCI 101, 105 or 110.

## 281. Accounting Information for Business Decisions II

 (3).This course is the second of a two course series focusing on the business environment and the use of managerial and financial accounting information for decision making. This course stresses the importance of recording, storing and reporting of financial information employing a practice set.
Prerequisite(s): ACCT 280.
All ACCT courses numbered above 299 have a prerequisite of junior status, an overall GPA of at least 2.00 and a grade of $C$ or better in CRTW 201 or WRIT 102.
303. Accounting Information Systems (3).

Basic concepts of accounting information systems including both manual and computer based systems. Examines transactions processing systems with emphasis on internal controls and documentation, user support systems, and systems development.
Prerequisite(s): MGMT 341 and ACCT 281 with a grade of C or better.
305. Intermediate Accounting I (3).

Theoretical and practical foundations of financial accounting and reporting for assets and current liabilities.
Prerequisite(s): Grade of C or better in ACCT 281.

## 306. Intermediate Accounting II (3).

Accounting for long term liabilities, capital, and special transactions.
Prerequisite(s): Grade of C or better in ACCT 305.

## 309. Budgeting and Executive Control (3).

Preparation and utilization of financial information for internal management purposes: planning and special decisions, cost determination, performance evaluation and control.

Prerequisite(s): ACCT 280 and 281.
401. Introduction to Tax (3).

Introduction to the concepts and methods of determining tax liability for individuals, corporations, estates and partnerships.
Prerequisite(s): C or better in ACCT 305 or FINC 311.

## 491. Accounting Internship (3).

Involves the application of professional accounting skills required in the academic environment to the role of the practicing professional accountant.
Prerequisite(s): C or better in ACCT 306 and 2.75 GPA.
502. Corporate Tax (3).

Concepts and methods of determining tax liability of corporations. Topics include ordinary income, capital gains and losses, net operating loss, reorganizations and contemporary problems in corporate taxation.
Prerequisite(s): Grade of C or better in ACCT 306 and ACCT 401.
505. Advanced Accounting Topics (3).

Special accounting topics not covered in other accounting courses. Examples of topics covered are business combinations, investments, leases, pensions, EPS, revenue recognition and the cash flow statement.
Prerequisite(s): Grade of C or better in ACCT 306.

## 506. Not for Profit Accounting (3).

Fund accounting and the financial presentation and disclosure requirements of governmental and other not for profit agencies.
Prerequisite(s): Grade of C or better in ACCT 306.
509. Auditing Principles and Procedures (3).

Internal control, test of transactions, direct tests of financial statement balances and statistical sampling, with emphasis on the auditor's decision-making process.
Prerequisite(s): Grade of C or better in ACCT 306.

## 510. Advanced Cost (3).

Study of the conceptual and procedural aspects of cost accounting.
Prerequisite(s): Grade of C or better in ACCT 309.
551. Business Law for Accountants (3:3:0).

Legal problems in the field of accounting and legal aspects required for CPA preparations.

## African-American Studies (AAMS)

300. Introduction to African American Studies (3). Interdisciplinary course including history and literature components.
Notes: Offered in the fall.
301. Geography of Africa (3:3:0).

Geography of Africa presents Africa's physical environment, its sociocultural diversity, its colonial heritage, and its economic development.
Prerequisite(s): GEOG 101 or GEOG 103. Sophomore
status or permission of the instructor.
Notes: Crosslisted with GEOG 303. Offered in the fall.
308. American Ethnic History (3:3:0).

A study of the experiences of Indians, Jews, European immigrants, Afro-Americans, Chinese, Japanese, Mexicans, and Puerto Ricans in the United States.
Notes: Crosslisted with HIST 308.

## 314. Race and Ethnic Relations (3).

Review of sociological concepts, theories, and evidence pertaining to race and ethnicity in crosscultural, historical, and modern settings.
Notes: Crosslisted with SOCL 314. Offered in the fall and spring.
315. Urban Politics (3:3:0).

The operation of government in metropolitan areas. Prerequisite(s): PLSC 201 with grade of C or better, or permission of the instructor.
Notes: Crosslisted with PLSC 315.

## 317. African American Politics (3:3:0).

This course is designed to provide students with a thorough understanding of the Black political experience in the United States. It considers relevant historical background and context, the constitutional framework of American government, and the nature of interactions with the main institutions of government. What is more, the course focuses on the role and participation of Blacks in US government and politics as well as the role of political parties, independent group politics, and social movements. In the process, the course highlights the black struggle for freedom, justice, equality, and full inclusion in the American political community. The role of race, class, and gender in African American politics is a concomitant focus of the course.
Prerequisite(s): PLSC 201 with grade of C or better, or permission of the instructor.
Notes: Crosslisted with PLSC317.
318. African American Literature (3:3:0). Chronological survey of the writings of African Americans with emphasis on contemporary writers.
Notes: Crosslisted with ENGL 318. Offered in the spring.

## 320. Racial, Cultural and Ethnic Influences on Identity

 Development (3).This course examines how race, ethnicity and culture influence the development of personal identity of self. Historical and contemporary models of ethnic, cultural and/or racial identity formation will be examined.
Diversity in the developmental process and outcomes of identity formation for African Americans will be emphasized.
Prerequisite(s): AAMS 300 or PSYC 101 and WRIT 101.
Notes: Offered in summer. Cross-listed with PSYC 320.
323. Cultures of Africa (3:3:0).

A study of African cultures which includes family life, government, economics, education, and religion.
Notes: Crosslisted with ANTH 323.
337. History of Sub-Saharan Africa (3:3:0).

Study of history of Black Africa from the beginning of tribalism throught the modern era.
Notes: Crosslisted with HIST 337.
338. Government and Politics of Africa (3:3:0).

Examination of historical and contemporary political issues, political forces, and government institutions in Africa.
Prerequisite(s): PLSC 205 and PLSC 207 or permission of instructor.
Notes: Crosslisted with PLSC 338.

## 498. Independent Study in African American Studies

 (3:3:0).This course is designed to allow students to study a topic in African Americanstudies in greater depth than allowed in a traditional classroom setting or any presently existing Winthrop courses. Students will receive assignments from their supervising instructor as appropriate.
Prerequisite(s): AAMS 300 and consent of instructor. Notes: Offered in fall, spring, and summer.
509. African American History (3:3:0).

A survey of the experiences and contributions of blacks from the African origins to the present.
Notes: Crosslisted with HIST 509.
518. Politics of the American South (3:3:0).

Focuses on the unique politics of the South. It places Southern politics in its theoretical and historical context and examines the central role of race in southern politics as well as regional importance to national issues. Prerequisite(s): PLSC 201 with grade of C or better, or permission of the instructor.
Notes: Crosslisted with PLSC 518.
551. African American Political Thought (3:3:0).

This course explores the historical struggle of Africanamericans to assess their identity in relationship to their legal and social oppression. In reflecting on the work of Audre Lourde, W.E.B. Dubois, Frederick Douglass, Sojourner Truth, Toni Morrison, Martin Luther King, Malcolm X, Cornell West, Mark Twain and others, we will angle in on the question of black identity from a variety of perspectives. Particular attention will be paid to the relationship between these articulations of "blackness" and the historical and political settings in which they arise. Informed class discussion will be emphasized. Students are expected to write a term paper and to present it to the class.
Prerequisite(s): GNED 102 or permission of instructor or graduate status.
Notes: Crosslisted with PLSC 551.
561. The History of the Caribbean (3:3:0).

The study of socioeconomic and political trends of the major islands off the Caribbean Sea from the colonia period to the present.
Notes: Crosslisted with HIST 561.

## ANTHROPOLOGY/ART

## Anthropology (ANTH)

## 201. Introduction to Cultural Anthropology (3).

An exploration of cultures throughout the world stressing variability in family, political and economic patterns, religion and world view.
Notes: Offered in the fall, spring and summer.
202. Introduction to Biological Anthropology (4:3:3). A study of the evolutionary history of humans. The course examines the anatomy, behavior and ecology of fossil and living primates and the extent of modern human diversity.
Notes: Lab Fee: $\$ 20$. Offered in the spring.
203. Introduction to Language and Culture (3).

A study of the cultural and social dimensions of language and how language usage varies from culture to culture and context to context.
Notes: Offered in the spring of odd years.

## 220. Introduction to Archaeology (3).

The course will cover the history of archaeological inquiry and the development of method and theory. Environment, trade, subsistence, technology, art, and other areas of culture are to be examined through material culture. Included will be an overview of the different cultural periods in the U.S. from prehistoric evidence to historical sites.
Notes: Offered in the fall, spring and summer.

## 301. Cross-Cultural Perspective of Human Experience

 (3).A comparative study of the human experience of kinship, symbolism, conflict and consensus, production and exchange. An advanced cultural anthropology course. Prerequisite(s): ANTH 201 or permission of instructor. Notes: Offered in the spring of even years.
321. Cultures of Latin America (3).

A study of selected contemporary peoples of Latin America in the context of present social, political and economic changes. Special attention is given to the problems of peasantry.
Prerequisite(s): ANTH 201 or permission of instructor. Notes: Offered in the fall of even years.

## 322. Ancient Civilizations of the Americas (3).

A survey of the ancient Indian civilizations of the Americas, including prehistory and social, political, and religious beliefs. Will trace the impact of contact with European civilizations.
Prerequisite(s): ANTH201.

## 323. Cultures of Africa (3).

A study of African cultures which includes family life, government, economics, education and religion.
Notes: Crosslisted with AAMS 323. Offered in the fall of odd years.

## 325. Chinese Culture (3).

An exploration of contemporary Chinese culture that is national in scope but allows a more in-depth look at
selected dimensions of Chinese life.
Notes: Offered in the spring of odd years.
340 A,B,C. Cooperative Education Experience (1) (2) (3). Provides on-the-job training in a professional field related to a student's major or career interests.
Prerequisite(s): Overall GPA 2.5 and minimum of 24 earned undergraduate semester hours. Placement objectives must be approved by Department Chair prior to enrollment.
Notes: For Anthropology minors only. Courses may be repeated for credit; however, a m aximum of 3 hours may be applied toward a minor in Anthropology. A grade of $S$ or U is recorded.
341. Fieldwork in Cultural Anthropology (3).

An experience in learning how to do research in cultural anthropology. Students learn research techniques, do fieldwork, and analyze and interpret the results.
Notes: Intensive Writing course. Offered in the spring of even years.
345. Field Work in Archaeology (3:2:2).

The course will cover site identification and preparation, artifact documentation and preservation, and site restoration. It will include field and laboratory components. Prerequisite(s): ANTH 220 or permission of the instructor.

## 350. Special Topics in Anthropology (3).

In-depth consideration of a specific topic of particular concern in anthropology. Course will be offered under various topics, such as witchcraft and healing, and conflict resolution. It may be repeated under different topics. Notes: Offered in the fall and alternate years in the summer.

## 351. Cross-Cultural Topics (3).

In-depth consideration of a specific topic of particular concern in anthropology. The topics offered will be crosscultural and international in scope. The course may be repeated under different topics.
Notes: Offered in the fall and alternate years in the summer.
540. Ecological Anthropology (3:3:0).

A study of humans' relationship to the environment in the past, present, and future. This course explores the biological and cultural adaptations that have allowed humans to occupy a wide range of diverse habitats. Prerequisite(s): ANTH 201 and ANTH 202; or consent of the instructor.
Notes: Offered in the fall of even years.

## Art (ARTS)

## 101. Two-Dimensional Design I (3:7).

Introduction to creative design elements, line, form, space, texture, color and basic technical skills, providing a foundation for subsequent art courses.
Notes: Lab Fee: $\$ 10$. Offered in fall, spring and summer.

## 102. Three-Dimensional Design I (3:7).

Comprehensive exploration of form, volume and space involving design, media, tools and technique.
Notes: Lab Fee: $\$ 25$. Offered in fall, spring and summer.
120. Drawing I (3:7).

Introduction to drawing concentrating on the fundamentals of line, value, perspective and composition as applied primarily to representational drawing from observation.
Notes: Lab Fee: $\$ 10$. Offered in fall, spring and summer.

## 121. Figure Drawing (3:7).

Introduction to drawing the human figure with emphasis on development of basic drawing skills of gesture,
proportion, contour and action.
Prerequisite(s): ARTS 120.
Notes: Lab Fee: $\$ 15$. Offered in fall and spring.

## 201. Two-Dimensional Design II (3:7).

Continued investigation of design and color with emphasis on understanding two-dimensional form, space, and creative visual organization.
Prerequisite(s): ARTS 101, 102.
Notes: Lab Fee: $\$ 10$. Offered in fall, spring and summer.

## 202. Three Dimensional Design II (3:7).

Continued study of space, form and media with emphasis on sculpture and design.
Prerequisite(s): ARTS 102.
Notes: Lab Fee: $\$ 25$. Offered in fall, spring and summer.

## 220. Drawing II (3:7).

An expansion of beginning drawing with increased emphasis on composition and concept using achromatic and color drawing media.
Prerequisite(s): ARTS 120.
Notes: Lab Fee: $\$ 10$. Offered in fall, spring and summer.

## 221. Life Drawing and Anatomy (3:7).

Drawing the human form. Study of anatomy and structure of the body. Experimentation in various media. Prerequisite(s): ARTS 121.
Notes: Lab Fee: $\$ 15$. Offered in fall and spring.

## 281. Computer Imaging in Design (3:0:7).

Use of personal computer in the context of visual design professions. Introduces student to skills needed to creating effective and expressive images in a desktop publishing environment.
Prerequisite(s): Foundation Portfolio Review or permission of Area Coordinator.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.

## 305. Introduction to Photography (3:0:7).

This course introduces the non-Art major to the principles of composition as applied to Photography. Based on the use of the 35 mm camera, students will learn the techniques and make effective black and white photographs. Students must have a 35 mm SLR camera with manual functions.
Notes: For non-Art majors only. Offered in fall, spring, and summer.
311. Photo Communication (3:7).

In this course the practices of the working photojournalist are studied and skills expected of an entry-level newspaper photographer are developed. Topics include the use of camera and flash equipment for typical jobs, accurate note-taking for cut-lines, ethics as they impact the news media and an introduction tosome of the major figures in the history of photojournalism. A portfolio of projects is produced, illustrating personal camera skills, as well as the ability to find pictures to accompany news stories. Notes: Lab Fee: $\$ 50$. For non-Art and Design majors only. Offered in fall and spring.
312. The Photo Essay (3:0:7).

This course further refines the practices and skills of the working photojournalist through the production of a photo essay project. Students explore and develop a semester-long body of work with emphasis on creating a personal style. Topics include the use of camera and flash equipment appropriate to the student's project, selecting an audience for the essay project, research and development of the essay theme, and research in the history of photojournalism to examine important individuals who have pursued similar projects. Students produce an essay portfolio, illustrating personal camera skills, as well as the ability to identify media outlets and exhibition spaces suitable for the project's display.
Prerequisite(s): ARTS 305 or ARTS 311 or ARTS 370 with permission of the instructor.
Notes: Offered in fall.
320. Drawing III (3:7).

Continuation of the drawing sequence with emphasis on mixed media techniques and thematic development. Prerequisite(s): ARTS 220.
Notes: Lab Fee: $\$ 10$. Offered fall or spring and as needed.

## 321. Advanced Life Drawing (3:7).

Exploration of the drawing approach. Creative use of composition, rendering techniques and the artist's point of view.
Prerequisite(s): ARTS 221.
Notes: Lab Fee: $\$ 15$. Offered in fall and spring.
332. Sculpture I (3:7).

Introduction to the techniques and design problems of sculpture. Experiences with appropriate processes and materials.
Prerequisite(s): ARTS 102.
Notes: Lab Fee: $\$ 25$. Offered in fall, spring and summer.

## 333. Sculpture II (3:7).

Study and development of the concept of form in space using primarily one material, employing various techniques.
Prerequisite(s): ARTS 332.
Notes: Lab Fee: $\$ 25$. Offered in fall, spring and summer.
335. Printmaking: Serigraphy/Screen Processes (3:7). Introduction to screen printing techniques including tusche drawing, stencil and photo screen printing.
Prerequisite(s): ARTS 101, 120.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.

ART
336. Printmaking: Relief (3:7).

Introduction to relief printing techniques in black and white including lino-cut and woodcut.
Prerequisite(s): ARTS 101, 120.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.
337. Printmaking: Intaglio Printing (3:7).

Introduction to basic techniques in intaglio printmaking including hard- and soft-ground etching, dry point, engraving, aqua tint and collagraph.
Prerequisite(s): ARTS 101 and 120.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.

## 342. Painting I (3:7).

Introduction to painting with emphasis upon professional approach to content, expression, materials and media techniques.
Prerequisite(s): ARTS 101 and 120.
Notes: Lab Fee: $\$ 10$. Offered in the fall, spring and summer.

## 343. Painting II (3:7).

Emphasis upon the development of an individual point of view. Individual problems in representational and nonrepresentational painting.
Prerequisite(s): ARTS 342.
Notes: Lab Fee: $\$ 10$. Offered in the fall, spring and summer.

## 351. Ceramics I (3:7).

Introduction to the techniques and processes used in the creation of clay forms.
Notes: Lab Fee: $\$ 45$. Offered in the fall, spring and summer.

## 352. Ceramics II (3:7).

Studio course introducing exploratory experiences in potters wheel and glazing techniques.
Prerequisite(s): ARTS 351.
Notes: Lab Fee: $\$ 45$. Offered in the fall, spring and summer.

## 355. Jewelry and Metals I (3:7).

Study of metals and the processes involved in designing and executing works in metal and related materials.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.
356. Jewelry and Metals II (3:7).

Continued experience with designing and producing works in metal and related materials.
Prerequisite(s): ARTS 355.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.
364. Digital Photography (3:0:7).

Exploring the means for making creative images through the use of the digital camera and by scanning film-based materials, this course covers some aspects of Photoshop for making an original and personal photographic portofolio.
Prerequisite(s): ARTS 101, ARTS 120.
Notes: Offered in fall and spring.

## 370. Basic Photography (Small-Format) (3:0:7).

With instruction in the 35 mm single lens reflex (SLR) camera, metering, film development and printing in black and white, this course emphasizes the use of composition and light. Skills are begun towards the development of 'camera-vision', where pictures effectively communicate a personal interest with a broad range of subjects. Students must have a 35 mm SLR camera with manual functions. Prerequisite(s): ARTS 101, ARTS 120.
Notes: Lab Fee: $\$ 50$. Offered in the fall, spring and summer.
371. Creative Processes in Photography (3:0:7).

This intermediate course builds on the technical skills and creative investigations begun in ARTS 370. Including serial imagery and the relationships between language and photography, assignments lead to alternative forms of presentation such as installations and artists' books. Technical instruction is provided on color slides, pushprocessing film, infra-red film and in the basic use of the medium-format camera. Black and white fiber printing papers are used extensively in conjunction with color toners. Students must have a tripod for this course. Prerequisite(s): ARTS 370 (or ARTS 305 or ARTS 311, with permission of the instructor).
Notes: Lab Fee: $\$ 50$. Offered in fall, spring and summer.
All Art studio courses (3:7) numbered above 375 have a prerequisite of junior status and the successful completion of the specialization portfolio review or permission of the Chair of the Department of Art and Design.
420. Drawing IV (3:7).

Further continuation of the drawing sequence with emphasis on conceptual and compositional solutions to advanced drawing problems.
Prerequisite(s): ARTS 320.
Notes: Lab Fee: $\$ 10$. Offered in fall, spring and summer.

## 432. Sculpture III (3:7).

Study and development of kinetic forms in space with emphasis on contemporary materials and methods.
Prerequisite(s): ARTS 333.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.
433. Sculpture IV (3:7).

Study of the figure as a form in space.
Prerequisite(s): ARTS 432.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.
436. Printmaking: Lithography (3:6).

Introduction to basic techniques in stone and plate lithography.
Prerequisite(s): ARTS 336 or ARTS 337.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.
437. Intermediate Printmaking (3:7).

Continued study in printmaking media with emphasis on more advanced traditional and contemporary techniques. Prerequisite(s): ARTS 335, 336, or 337.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.
442. Painting III (3:7).

Emphasis on the student's personal creative expression and the continuing development of painterly skills. Prerequisite(s): ARTS 343.
Notes: Lab Fee: $\$ 10$. Offered in the fall, spring and summer.
443. Painting IV (3:7).

Continuation of the narrowing of focus to develop an individual expression.
Prerequisite(s): ARTS 442.
Notes: Lab Fee: $\$ 10$. Offered in the fall, spring and summer.

## 451. Ceramics III (3:7).

Continuing explorations in hand and wheel throwing techniques. Exploratory experiences in clay body formulation and compounding glazes.
Prerequisite(s): ARTS 352.
Notes: Lab Fee: $\$ 45$. Offered in the fall, spring and summer.

## 452. Ceramics IV (3:7).

Intermediate course study in either hand built or wheel thrown forms with an emphasis on the relationship between form and decoration.
Prerequisite(s): ARTS 451.
Notes: Lab Fee: $\$ 45$. Offered in the fall, spring and summer.

## 455. Jewelry and Metals III (3:7).

Advanced work in jewelry and metals.
Prerequisite(s): ARTS 356.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.
456. Jewelry and Metals IV: Forming (3:7).

A design and practical exploration of forging and forming techniques used in the production of jewelry and metalwork.
Prerequisite(s): ARTS 455.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.

## 470. Photography III (3:7).

Developing an aesthetic awareness and technical proficiency with the creative potential of color photography, this course concentrates on making prints from color negatives. Color composition, color temperature, the use of filters and flash, are all investigated. The course aims to develop a use of color photography as a means of personal expression, as well as to build skills for working profesionally. Students must have a flash for this course. Prerequisite(s): ARTS 101, 120, 201, 371.
Notes: Lab Fee: $\$ 70$. Offered in fall.
472. Editorial Photography (3:0:7).

This course investigates the relationship between the individual and the social environment. Students photograph people at work and in locations that emphasize the subject's role in society. The course includes making work suitable for newspapers, magazines and annual reports and culminates in a documentary project arranged by the student. Required equipment for this course includes a wide-angle lens and a flash.

Prerequisite(s): ARTS 371 or by portfolio review and permission of the instructor.
Notes: Lab Fee: \$50. Offered in spring.
473. Large-Format Photography (3:0:7).

Working primarily with $4 \times 5$ " view cameras (but also having access to the $8 \times 10^{\prime \prime}$ camera), students learn to use the descriptive power of the large-format negative for personal expression and creative purpose. A grounding in exposure control through the Zone System enables students to improve their understanding of the relationship between subject brightness and print tonal range. Students must have a view camera and suitable tripod for this course.
Prerequisite(s): ARTS 101, 120, 201, 371.
Notes: Lab Fee: $\$ 50$. Offered in fall.
474. Studio Lighting for Photography (3:0:7).

This course gives the students a working knowledge of strobe and tungsten lighting, as used in table-to photography, portraiture and photographing interior architecture and the human figure. It includes the methods for calculating light intensities when properly lighting a 3dimensional object, as well as exploring creative techniques commonly exploited in studio work. Students must own a Sekonic L-408 Multimaster light meter (which provides flash, ambient light and spot readings).
Prerequisite(s): ARTS 470.
Notes: Lab Fee: $\$ 50$. Offered in spring.
475. Alternative Processes in Photography (3:0:7).

Photographic printing paper can be a rich material, capable of extraordinary tonal scale in and with a character of rare beauty. This course comprises the making of photographic paper by mixing light-sensitive emulsions and applying them to quality drawing paper by hand. Some of the historic processes are investigated, including Cyanotype, Van Dyke, Gum Bichromate, Platinum and Palladium. Later in the course students select one process with which to make a unified series of prints.
Prerequisite(s): ARTS 281, 470, 473 (or ARTS 473 as a corequisite).
Notes: Lab Fee: $\$ 70$. Offered in spring.
480, 481. Special Topics in Art (1) (1).
Extended individual opportunities in studio art beyond existing departmental curriculum.
Prerequisite(s): Permission of the Chair of the Department of Art and Design.
Notes: Offered once per year.
482, 483, 484. Special Topics in Art (3) (3) (3).
Extends individual opportunities in studio art beyond existing departmental curriculum limits.
Prerequisite(s): Permission of the Chair, Department of Art and Design.
Notes: Lab Fee: $\$ 25$. Offered once per year.
532. Sculpture V (3:7).

Development of design and technical skills in the student's specific area of interest.
Prerequisite(s): ARTS 433.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.

ART
533. Sculpture VI (3:7).

The conception and production of a unified professional body of work appropriate to a one-artist exhibition of sculpture.
Prerequisite(s): Permission of instructor.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.

## 536. Advanced Printmaking (3:7).

Advanced study in printmaking media with a concentration of image formulation through advanced techniques and multi-color printing.
Prerequisite(s): ARTS 437.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.

## 542. Painting V (3:7).

A continuation of the study of painting to develop professional, painterly skills through individual expression.
Prerequisite(s): ARTS 443.
Notes: Lab Fee: $\$ 10$. Offered in fall, spring and summer.
543. Painting VI (3:7).

Advanced study offering a thorough grounding in the
discipline of painting.
Prerequisite(s): ARTS 542.
Notes: Lab Fee: $\$ 10$. Offered in fall, spring and summer.

## 551. Ceramics V (3:7).

Advanced study to develop a personal approach to the ceramic object. Exploration of glaze calculation and application.
Prerequisite(s): ARTS 452.
Notes: Lab Fee: $\$ 45$. Offered in fall, spring and summer.

## 552. Ceramics VI (3:7).

Advanced work in ceramics culminating in the production of a body of work of professional standard. Study of kiln construction and portfolio photographic documentation. Prerequisite(s): ARTS 551.
Notes: Lab Fee: $\$ 45$. Offered in fall, spring and summer.
555. Jewelry and Metals V: Fashion (3:7).

Design and production of both fashion and fine jewelry with an emphasis on mixed media.
Prerequisite(s): ARTS 455.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.
556. Jewelry and Metals VI: Fine Jewelry (3:7).

Advanced study in fine and fashion jewelry/metals. Prerequisite(s): ARTS 555.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.
572. Fashion Photography (Medium-Format) (3:1:6).

This course combines creative photography techniques used in the fashion industry with the financial aspects of making a living as a working photographer. Projects are designed to imitate assignments a studio photographer would typically receive, stressing individual creative solutions for a project, working to a deadline and staying within a client's budget. Students must own a mediumformat camera with flash synchronization capability. Prerequisite(s): ARTS 474.
Notes: Lab Fee: $\$ 50$. Offered in the fall.

## 573. Photography Thesis Project (3:1:6).

Designed for seniors, this course provides an opportunity to investigate a single topic of personal interest. By working closely with the instructor, the student's project is devised, executed, and in the process a conceptual frameworkis developed. To accompany the project students learn to write an artist's statement, how to complete a grant application for a fine-art project or develop a detailed budget for a commercial project proposal.
Prerequisite(s): ARTS 473, 474 and ARTS 472 or 475 or 572, senior status.
Notes: Lab Fee: $\$ 50$. Offered in the fall.

## 574. Photography Thesis Exhibition (3:0:7).

This course is dedicated to the production of a project for a one-person exhibition, which the student installs at the end of the semester. Building on the experience of ARTS 573, the student investigates a single topic, which may be a new project, a continuation of the earlier project, or a refined version of it. The exhibition (typically 12-15 pieces of work) is accompanied by a written artist's statement. Prerequisite(s): ARTS 573.
Notes: Lab Fee: $\$ 50$. Offered in the fall.
577. Advanced Problems in Advertising Design (3:7).

Research and conceptualization of visual media in package design including industrial and food packages. Prerequisite(s): ARTS 477 or 478.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.
580, 581. Special Topics in Art (1) (1).
Extends individual opportunities in studio art beyond existing departmental curriculum limits.
Prerequisite(s): Permission of chair, Department of Art and Design.
Notes: May be retaken for additional credit. Offered in fall, spring and summer.

582, 583. Special Topics in Art (2) (2).
Extends individual opportunities in studio art beyond existing departmental curriculum limits.
Prerequisite(s): Permission of chair, Department of Art and Design.
Notes: Offered in fall, spring and summer. May be retaken for additional credit.

584, 585. Special Topics in Art (3) (3).
Extends individual opportunities in studio art beyond existing departmental curriculum limits.
Prerequisite(s): Permission of chair, Department of Art and Design.
Notes: Lab Fee: \$50. Offered in fall, spring and summer. May be retaken for addition al credit.

584H. Special Topics in Art (3).
Extends individual opportunities in studio art beyond existing departmental curriculum limits.
Prerequisite(s): Permission of chair, Department of Art \& Design.
Notes: Lab Fee: \$50. Offered in fall, spring and summer. May be retaken for additional credit.

## Art Education (ARTE)

## 391. Principles of Teaching Art (3:2:2).

An examination of various research-based programs of instructional planning, methodology, classroom management, and evaluation of teaching and learning in art, K-12. Prerequisite(s): Admission to Teacher Education.
Corequisite(s): ARTE 392, EDUC 390.
Notes: Offered in fall semester.
450. Honors: Selected Topics in Art Education (3).

Independent research on a selected topic in art education, culminating in an honors thesis or project.
Prerequisite(s): 18 semester hours of education and art education and consent of the Department Chair.
Notes: Offered in the fall, spring and summer.
482, 483, 484. Special Topics in Art Education (3) (3) (3).
An in-depth study of selected topics or problems in Art Education.
Prerequisite(s): Permission of the Chair of the Department of Art and Design.
Notes: Offered in fall, spring and summer.
528. Foundations of Art Education (3:3:1).

The development of objectives for art education based on the personal and historical references in philosophy and psychology. A critical examination of traditional and contemporary bases.
Prerequisite(s): Permission of instructor. Admission to Teacher Education Program.
Notes: Lab Fee: $\$ 10$. Offered in fall, spring and summer.

## 547. Art for Classroom Teachers (3:5).

Introduction to the aims, philosophies and creative studio experiences relevant to teaching art in the elementary school.
Prerequisite(s): Education major or permission of instructor. Admission to Teacher Education Program.
Notes: Lab Fee: $\$ 10$. Offered in fall, spring and summer.
548. Curriculum Development in Art Education (3:3:1). Curriculum development for art educators at the various levels (K-12).
Prerequisite(s): Permission of instructor. Admission to Teacher Education Program.
Notes: Lab Fee: $\$ 10$. Offered in fall, spring and summer.

## 550. Principles of Teaching Art (3).

Study and application of skills of planning, instruction, management and assessment of students of art. Includes a review of the ethical and legal responsibilities of art teachers.
Prerequisite(s): Permission of instructor. Admission to Teacher Education Program.
Notes: Lab Fee: $\$ 20$. Offered in fall, spring and summer.
580. Current Issues in Art Education (3).

Intensive examination and analysis of current issues in contemporary art education.
Prerequisite(s): Permission of instructor.
Notes: Offered in fall, spring and summer.
592. Field Experience in Teaching Art (1:0:8).

Laboratory experience equivalent to 28 half days designed to lead art students through an exploration and examination of various research-based programs of instructional planning, methodology, classroom management, and evaluation of teaching and learning.
Prerequisite(s): ARTE590.
Corequisite(s): ARTE591 and EDUC390.

## Art History (ARTH)

## 175. Introduction to Art History from Prehistory Through The Middle Ages (3).

Survey of art and architecture in the major civilizations of Egypt, the Ancient Near East, Greece, Rome, Byzantium, Medieval Europe, India, China, Japan, and Africa.
Notes: Offered in fall and spring.
176. Introduction to Art History from the Renaissance to the Present (3).
Survey of art and architecture in Western Civilizations, from the Renaissance to the present.
Notes: Offered in fall and spring.
274. History of Graphic Design and Illustration (3). This survey course will focus on the history and evolution of style, technology, processes, and elements within graphic design and illustration. Industrial design examples will also be covered, with specific emphasis on design in Western culture. Students may not receive credit for both ARTH 274 and VCOM 274.
Prerequisite(s): ARTH 175 and ARTH 176.
Notes: Offered in spring.
281. Arts of Africa, the Americas, Oceania (3).

A survey of the art and architecture of the peoples of Africa, North and South America, and the South Pacific, with an emphasis on placing the arts within their social and cultural context.
Notes: Offered once per year.
282. Arts of China, Japan, and India (3).

A survey of the art and architecture of the peoples of China, Japan, and India with an emphasis on their cultural context and historical interconnections.
Notes: Offered once per year.
340. Cooperative Education Experience (3:1:3).

A cooperative education experience to provide training for the Art History major in a professional environment. A maximum of 6 hours of cooperative education may be applied toward the Bachelor of Fine Arts degree.
Prerequisite(s): Passage of Sophomore Portfolio Review or special permission of the Chair of Art and Design.
Notes: Offered in the fall, spring and summer.
375. Ancient Art (3).

Survey of art and architecture from Prehistoric times through the Fall of the Roman Empire.
Prerequisite(s): ARTH 175 or permission of instructor.
Notes: Offered once every two years.

## ART HISTORY/ART THEORY

## 376. Medieval Art (3).

Survey of art and architecture from the Early Christian era through the Gothic period.
Prerequisite(s): ARTH 175 or permission of instructor.
Notes: Offered once every two years.
377. Renaissance \& Baroque Art of Southern Europe (3).

Study of art and architecture, focusing on Italy and Spain,
from the Renaissance through the early Eighteenth
Century.
Prerequisite(s): ARTH 176 or permission of instructor.
Notes: Offered once every two years.
378. Renaissance \& Baroque Art of Northern Europe (3). Study of art and architecture in Northern Europe from the Renaissance through the early Eighteenth Century. Prerequisite(s): ARTH 176 or permission of instructor. Notes: Offered once every two years.

## 379. The History of Photography (3).

This course surveys the history of photography from its technical origins up to contemporary times, tracing its perception as a purely mechanical or documentary process in the early 19th century, through its elevation to the status of 'fine art' today. Class discussions on topics related to the course material and guest lectures by practicing photographers will be included as time permits. Prerequisite(s): ARTH 176.
Notes: Offered every 3 years in fall.

## 381. Arts of Africa (3).

A survey of the visual arts and architecture of Africa from pre-historic times to the present, with an emphasis on placing the arts within their social and cultural context. Notes: Offered once per year.

## 382. Arts of the Americas (3).

A survey of the visual arts and architecture made of ancient Mesoamerica and the Native American cultures of North America, with an emphasis on placing the arts within their social and cultural context.
Notes: Offered once every two years.
450. Honors: Selected Topics in Art History (3). Independent research on a selected topic in art history, culminating in an honors thesis of professional quality. Prerequisite(s): Permission of the Chair, Department of Art \& Design.
Notes: Offered in once per year.
476. Art History Methods (3).

Study of the methods, research techniques, literature, and resources used in art historical inquiry and writing.
Notes: Offered in fall and spring.
477. Women in Art (3).

Consideration of the images of women portrayed through art. The impact of feminism on art, and contributions of women artists, designers, and architects to the history of art.
Notes: Offered in fall and spring.
478. The Rise of Modernism (3).

Study of art and architecture in Europe and America from the late 18th century through the early 20th century.
Prerequisite(s): ARTH 176 or permission of instructor.
Notes: Offered in fall and spring.

## 479. Twentieth Century Art (3).

Study of art and architecture from the early 20th century to the present, with a focus on Europe and America.
Prerequisite(s): ARTH 176.
Notes: Offered in fall and spring.
480, 481, 482. Special Topics in Art History (3) (3) (3). Study of a special problem in the history of art from antiquity to modern times, such as the individual artist, genre, theme, artistic movement or museum studies. Prerequisite(s): ARTH 175 and 176 or permission of the instructor.
Notes: Offered in fall, spring and summer.
483-485. Special Topics in Non-Western Art (3). Specialized study in one or more of the following: Art and Architecture of Africa, the South Pacific, North American Indian, Japan, China, India, Caribbean and Latin American and Native Americans of the Americas. Notes: Offered in fall, spring and summer.

## Art Theory (ARTT)

110. Introduction to the Visual Arts (1).

A comprehensive introduction to the professional, social, historical, and personal perspectives of the visual arts.
Prerequisite(s): Concurrent enrollment in one or more of the following: ARTS 101, 102, 120 or 220 or 121.
Notes: Offered in fall.
298. Art Appreciation (3).

Survey of trends in art, traditional and contemporary styles.
Notes: Does not count toward art and design major or minor. Offered in fall, spring a nd summer.

## 300. Specialization Portfolio Review (0).

Review of student proficiency for acceptance in upperlevel area of specialization. BFA students must enroll for this review prior to enrollment in ARTS courses numbered above 375 and INDS courses numbered above 299. Prerequisite(s): Completion of foundation and specialization courses as specified for each BFA concentration in catalog.
Notes: Offered in fall, spring, and summer.
340. Cooperative Education Experience (3). A cooperative education experience to provide training for the ART major in a professional environment. A maximum of 6 hours of cooperative education may be applied toward the Bachelor of Fine Arts degree. Prerequisite(s): Passing of Sophomore Portfolio Review or special permission of the Chair of Art and Design. Notes: Offered in fall, spring and summer.
359. Museum and Gallery Practices (3:0:7).

An introductory study and application of professional practices and common guidelines within the art museum and gallery environment including the care and handling of art objects, interpretation, facility design and exhibition organization and design.
Prerequisite(s): ARTS 101 and 102; ARTH 175 and 176; and WRIT 102.
Notes: Offered in fall, spring and summer.

## 395. Art Criticism (3).

An intensive writing course with emphasis on art, design, architecture, and art criticism.
Prerequisite(s): WRIT 101-102 and ARTH 175-176.
Notes: Intensive Writing course. Offered in fall and spring.
498. Survival Guide for Artists (3:3:0).

Providing information for making a living as a fine artist, this lecture course includes grant writing, studio rentals, exhibitions, gallery sales and contracts, residencies and fellowships, commissions, pricing of artwork for sales, legal assistance, copyright issues, oral presentations and interview skills.
Prerequisite(s): Completion of Department's Specialization Portfolio Review and at least junior status, or permission of the department chair.
Notes: Offered in spring.

## 499. Senior Review (1).

B.F.A. students, except for those in Visual Communication Design and Interior Design concentrations, review career and job possibilities and develop application and interview skills for employment or graduate study.
Prerequisite(s): Senior standing.
Notes: Offered in the fall and spring.

## Biology (BIOL)

101. Human Biology (3).

A consideration of selected aspects of the functioning of the human body and of bioethical issues related to human health, heredity and reproduction.
Notes: Offered in the fall, spring and summer.

## 106. Environment and Man (3).

A study of natural and human environments, effects of humans on the environment and environmental limits and future options.
Notes: Offered in the fall, spring and summer.
150. Elements of Living Systems (3:3:0).

A course for non-science majors that introduces the unifying principles of biology. The course will cover various levels of organization from molecules to ecosystems. Topics include ecology, energy use and acquisition, biodiversity, evolution, genetics and cells.
Notes: Offered in the fall, spring, and summer.
151. Investigations into Living Systems (1:0:3). A 1-hour laboratory course for non-science majors that combines the application of scientific method with lab
exercises illustrating the unifying principles of biology. Topics include scientific method, data collection, statistical analysis, behavior, ecology, genetics and cells.
Corequisite(s): BIOL 150.
Notes: Lab Fee: $\$ 40$. Offered in the fall, spring, and summer.
203. Principles of Biology Laboratory (1:0:3).

Laboratory for Biology 204.
Corequisite(s): BIOL 204.
Notes: Lab Fee: \$30. Offered in the fall, spring, and summer.
204. Principles of Biology (3:3:0).

An overview of biology, focused on the cell, genetics, evolution, ecology, and animal behavior.
Corequisite(s): Biology 203.
Notes: Offered in the fall, spring, and summer.
205. General Botany (4:3:3).

A comprehensive study of fundamental structures and functions of plants with detailed consideration of representatives of the major divisions.
Prerequisite(s): BIOL 150 and 151 or BIOL 204.
Notes: Lab Fee: $\$ 30$. Offered in the fall and spring.
206. General Zoology (4:3:3).

A comparison of representatives of the major animal phyla with emphasis on anatomy, physiology, lifestyle and life history.
Prerequisite(s): BIOL 150 and 151 or BIOL 204.
Notes: Lab Fee: $\$ 40$. Offered in the fall and spring.
A grade of C or better in BIOL 300 is required to enroll in all Biology courses numbered above 300 (except BIOL
$303,307,308,340,461$, and 463).
300. Scientific Process in Biology (4:2:4).

The application of scientific method to investigations in biology, including hypothesis formulation, experimental design, data analysis, and report preparation.
Prerequisite(s): BIOL 203, 204 and either BIOL 205 or BIOL 206; GNED 102; CHEM 105 and CHEM 107; MATH 101 or CTQR 150 or any MATH course with MATH 101 as a prerequisite; students must have a minimum GPA of 2.00 in 200-level BIOL courses taken, and a minimum grade of C in CHEM 105, CHEM 107, and GNED 102.
Notes: Lab Fee: $\$ 30$. Intensive Writing course. Offered in the fall and spring.

## 303. Field Botany (4:2:4).

A study of plants in their natural environment with field trips and collection, analysis, identification and preservation of plant specimens.
Notes: Lab Fee: $\$ 30$. Offered every fall and summer of even years.

## 304. Insect Field Studies (4:3:3).

A study of insects in their natural environment, including field trips, collections, observation, identification and specimen preparation.
Notes: Lab Fee: $\$ 40$. Offered in fall and summer of odd years.

## BIOLOGY

307. Human Anatomy (4:3:3).

A study of gross human anatomy with an introduction to the microscopic organization of selected tissues and organs of the body. The laboratory portion involves dissection of animal cadavers and examination of human skeletons and models.
Prerequisite(s): GNED 102 and General Education Math requirement.
Notes: Lab Fee: $\$ 40$. Offered in fall.
308. Human Physiology (4:3:3).

A study of the function of the major human organ
systems. The laboratory portion of the course will
examine the homeostatic mechanisms that enable the body to maintain a stable internal environment.
Prerequisite(s): GNED 102 and General Education Math requirement; BIOL 307 is not a prerequisite; BIOL 308 may be taken before BIOL 307.
Notes: Lab Fee: $\$ 40$. Offered in spring.

## 310. Microbiology (4:3:3).

An introductory survey of microbial activities, environment, diversity and economic importance. Bacterial and viral activities are emphasized.
Prerequisite(s): BIOL 204, 205, 206, 300 or NUTR 521; and CHEM 106, 108.
Notes: Lab Fee: $\$ 40$. Offered in the fall and spring.

## 315. Cell Biology (4:3:3).

An in-depth study of cellular structure, function and chemical composition. The laboratory seeks to develop skills in standard laboratory techniques in cellular, molecular, physiological and environmental studies.
Prerequisite(s): BIOL 204, 205, 206, 300; CHEM 106 and 108.

Notes: Lab Fee: $\$ 50$. Offered in the spring.
317. Genetics (3).

A study of the historical and contemporary aspects of the science of heredity with stress upon patterns and modes of inheritance.
Prerequisite(s): BIOL 204, 205, 206, 300; and CHEM 106, 108.

Notes: Offered in the fall and spring.
318. Experimental Genetics (1:0:3).

Laboratory exercises dealing with fundamental concepts as well as recent advances in genetics.
Prerequisite(s): BIOL 204, 205, 206, 300, 317; CHEM 106, 108.

Notes: Lab Fee: $\$ 30$. Offered in the fall of even years.

## 321. Microscopic Anatomy (4:2:4).

An introduction to the study of vertebrate tissues, including techniques for slide preparation.
Prerequisite(s): BIOL 204, 205, 206, 300; and CHEM 106, 108.

Notes: Lab Fee: $\$ 30$. Offered in the fall.

## 322. Developmental Biology (4:2:4).

A study of the ordered processes by which living systems, from cells to multicellular organisms, become structurally and functionally organized.

Prerequisite(s): BIOL 204, 205, 206, 300; and CHEM 106, 108.

Notes: Lab Fee: $\$ 30$. Offered in the spring of even years.
323. Tropical Watershed and Coastal Ecology (4:1:5).

Travel to tropical locations where lectures, seminars, lab and field exercises will trace a watershed from its source to the coast.
Prerequisite(s): Minimum junior status, GNED 102, Biol
205 or 206, or permission of instructor.
340 A, B, C. Cooperative Education Experience (1) (2) (3). Provides on-the-job training in a professional field related to a student's major or career interests.
Prerequisite(s): Overall GPA 2.5 and minimum of 24 earned undergraduate semester hours. Placement objectives must be approved by Department Chair prior to enrollment.
Notes: For Biology majors only. A maximum of 3 hours may be applied toward a major in Biology. Credit will not be allowed for both BIOL $461 / 463$ and 340 . A grade of $S$ or U is recorded. Offered in the fall, spring and summer.
403. Ecology (4:3:3).

A study of the pattern of relations between organisms and their environment including principles applicable to populations, biotic communities, ecosystems and biosphere.
Prerequisite(s): BIOL 204, 205, 206, 300; and CHEM 106, 108.

Notes: Lab Fee: $\$ 30$. Offered in the fall.
440. Readings in Biology (1).

An undergraduate seminar course in which a book or series of research papers will be read and discussed with reference to important current issues in biology. Prerequisite(s): BIOL 300 and permission of the instructor. Notes: A grade of S or U is recorded. Offered fall and spring.
450. Honors: Selected Topics in Biology (4).

In-depth independent inquiry into a selected biological subject.
Prerequisite(s): BIOL 204, 205, 206, 300; and CHEM 106, 108.

Notes: Lab Fee: $\$ 35$. Offered in the fall, spring and summer.

461, 463. Academic Internships in Biology (1) (3).
An opportunity for biology majors to earn credit for experience gained through apprenticeship work under the supervision of trained professionals.
Prerequisite(s): Open only to students majoring in biology with a GPA of 2.0 in both major and overall. Prior approval from the department and Dean of the College of Arts and Sciences is required.
Notes: Credit will not be allowed for both BIOL 461/463 and 340. A grade of S or U is recorded for these courses. Offered in the fall, spring and summer.
471. Undergraduate Research in Biology (3).

Students participate in scholarly research with a faculty member. Requires approval of Departmental Chair.

Prerequisite(s): BIOL 204, 205, 206, 300; and CHEM 106, 108.

Notes: Lab Fee: $\$ 35$. Offered in the fall, spring and summer.
480. Integration of Biological Principles (3).

A series of lectures, reports, and discussions of biological principles taught in the core courses for the biology major. Historical development of unifying concepts will be analyzed.
Prerequisite(s): BIOL 204, 205, 206, 300; one course from each of the four biology areas; and CHEM 106, 108; senior standing.
Notes: Offered in the fall and spring.
491, 492. Departmental Seminar (0) (0).
Presentations of biological research by invited speakers. Prerequisite(s): BIOL 204, 205, 206, 300; and CHEM 106, 108.

Notes: A grade of S or U is recorded for these courses.
Both offered in the fall and spring.
495. Standardized Test Review (1).

This is a standardized test review course to help students prepare to take an entrance exam for medical school, dental school, veterinary school, or another graduate program (MCAT, VCAT, DAT, GRE, etc.).
Prerequisite(s): Junior standing and permission from the Biology Department Chair.
Notes: A grade of S or U is recorded. Offered in the spring. Does not count toward the 42 hours of biology required for the major.

## 505. Primate Biology (3).

A study of the morphology, behavior, ecology and evolutionary relationships of primates including prosimians, monkeys, apes and hominids.
Prerequisite(s): BIOL 204, 205, 206 and 300; CHEM 106 and 108; or ANTH 202 and permission of instructor.
Notes: Offered every odd year in fall.

## 508. Invertebrate Biology (4:2:4).

An introduction to the biology of invertebrate animals with emphases on their physiology, anatomy and evolutionary relationships.
Prerequisite(s): BIOL 204, 205, 206 and 300; CHEM 106 and 108.
Notes: Lab Fee: $\$ 35$. Offered every odd year in spring.

## 510. Vertebrate Natural History (4:2:4).

A course covering the evolution, distribution, ecology and physiology of all classes of fish, amphibians, reptiles, birds and mammals.
Prerequisite(s): BIOL 204, 205, 206 and 300; CHEM 106 and 108.
Notes: Lab Fee: $\$ 30$. Offered every odd year in spring.

## 511. Ornithology (4:2:4).

A lecture and field course in bird evolution, ecology, behavior and field identification.
Prerequisite(s): BIOL 204, 205, 206 and 300 or permission of instructor.
Notes: Lab Fee: $\$ 30$. Offered in summer.

## 513. Organic Evolution (3).

A study of the mechanism of change in the genetic constitution of populations over time with consideration of historical progress toward our present understanding. Prerequisite(s): BIOL 204, 205, 206, 300 and 317; CHEM 106 and 108.
Notes: Offered in fall.
515. Environmental Biology (4:2:4).

A study of the ways by which human activity alters natural ecosystems and affects human health.
Prerequisite(s): BIOL 204, 205, 206 and 300; CHEM 106 and 108.
Notes: Lab Fee: $\$ 35$. Offered in spring.
517. Human Genetics (3).

A comprehensive study of human genetics, especially covering the area of single gene defects, chromosome disorders, cancer, multifactorial inheritance, immunogenetics, behavior and populations.
Prerequisite(s): BIOL 204, 205, 206, 300 and 317; CHEM 106 and 108.
Notes: Offered every odd year in fall.

## 518. Animal Behavior (3).

A study of the mechanisms and patterns of animal activity, including principles of sociobiology.
Prerequisite(s): BIOL 204, 205, 206 and 300; CHEM 106 and 108.
Notes: Offered every even year in spring.
519. Mechanisms of Disease (3:3:0).

A study of disease cause and progression in humans and animal models at the cellular, molecular and organismal levels.
Prerequisite(s): BIOL 300 and 315.

## 520. Entomology (4:2:4).

A study of the morphology, physiology, ecology and behavior of insects with emphasis upon recognition of major insect groups and techniques for preservation and identification.
Prerequisite(s): BIOL 204, 205, 206 and 300; CHEM 106 and 108.
Notes: Lab Fee: $\$ 40$. Offered every odd year in fall.
521. Cytogenetics (4:3:3).

A comprehensive study of the chemical and physical properties of chromosomes and their behavior and role in inheritance.
Prerequisite(s): BIOL 204, 205, 206, 300 and 317; CHEM 106 and 108.
Notes: Lab Fee: $\$ 30$. Offered every even year in fall.

## 522. Immunology (4:2:4).

A study of immunity, of the nature and molecular aspects of the immune response, and of antibodies in the laboratory.
Prerequisite(s): BIOL 204, 205, 206 and 300; CHEM 106 and 108.
Notes: Lab Fee: $\$ 40$. Offered in spring.

## BIOLOGY/BUSINESS ADMINISTRATION

524. Advanced Botany (3).

Relationship of morphology and physiology to environmental factors that limit plant distribution and growth. Prerequisite(s): BIOL 204, 205, 206 and 300; CHEM 106 and 108.
Notes: Offered every even year in spring.

## 525. Mycology (4:3:3).

Survey of major fungal taxons with emphasis on field collection, identification, structural and functional studies; and methods of laboratory culture and experimentation.
Prerequisite(s): BIOL 204, 205, 206, 300 and 310; CHEM 106 and 108.
Notes: Lab Fee: $\$ 35$. Offered odd years in spring.

## 526. Applied Microbiology (4:3:3).

Examination of the technological and natural uses of microorganisms in medicine, food industry, agriculture and other fields of applied science.
Prerequisite(s): BIOL 204, 205, 206, 300 and 310; CHEM
106 and 108.
Notes: Lab Fee: $\$ 30$. Offered every even year in spring.

## 527. Population Biology (4:3:3).

A survey of the population biology of plants and animals. Emphasizes the assessment and analysis of demographic factors (age, size and community interactions) that determine the abundance, distribution and diversity of natural populations.
Prerequisite(s): BIOL 300.
Notes: Lab Fee: \$30. Offered every odd year in the fall.

## 530. Methods in Electron Microscopy (4:2:6).

Introduction to theory and methods used in studying biological and materials science-specimens by scanning and/or transmission electron microscopy.
Prerequisite(s): BIOL 204, 205, 206 and 300; CHEM 106 and 108, and CHEM 301, 302, 303, 304 or CHEM 310 and 311.

Notes: Lab Fee: $\$ 50$. Offered every odd year in spring.

## 540. Special Topics in Biology (3).

A detailed examination of specific subjects in biology. Prerequisite(s): BIOL 204, 205, 206 and 300; CHEM 106 and 108; or graduate status; or permission of instructor. Notes: May be retaken for credit when different subjects are taught. Offered on demand.

## 555. Molecular Biology (3).

A comprehensive, one-semester study of the molecular basis of life. The course includes the structure and function of macromolecules, synthesis and interactions of biologically important molecules, molecular genetics, biochemical energetics, enzymatics, and molecular mechanisms in biological systems. This course is intended for students who plan to enter into a health-professional graduate program (medical school, veterinary school, dental school, medical technology), or a graduate program in biology.
Prerequisite(s): BIOL 300, CHEM 301.
Notes: Offered in Fall.
556. Molecular Genetics and Recombinant DNA Techniques (4:3:3).
A molecular study of the processes of gene expression and replication in procaryotic and eucaryotic organisms and an examination of the recombinant DNA techniques used in genetic engineering.
Prerequisite(s): BIOL 204, 205, 206, 300, 317; and CHEM 106, 108.
Notes: Lab Fee: $\$ 50$. Offered in spring of even years.

## 560. Bioinformatics (3)

An introduction to the application of computing tools for the study of macromolecules and the reconstruction of the evolutionary history of genes and organisms. This course will apply the use of computer algorithms and computer databases to study proteins, genes and genomes. Offered in the fall of even years.
Prerequisites: BIOL 300 and one of the following--BIOL 315 or 555 or 556 or CHEM 523.

## Business Administration (BADM)

## 180. Contemporary Business Issues (3).

An introduction to management issues emphasizing the integrative aspects of the functional areas of business. This course will serve as a foundation for a student's business education.

All BADM courses numbered above 299 have a prerequisite of junior status, an overall GPA of at least 2.00 and a grade of $C$ or better in CRTW 201 or WRIT 102.

## 340 A, B, C. Cooperative Educational Experience (1) (2)

 (3).Provides on-the-job training in a professional field related to a student's major or career interests.
Prerequisite(s): Overall GPA 2.5 and minimum 24 earned undergraduate semesters hours (12 earned at Winthrop University).
Notes: For Business Administration majors only. Courses may be repeated for credit; however a maximum of 3 hours may be applied toward a degree in Business Administration. A grade of S or U is recorded for this course.
350. Legal Environment of Business (3).

Basic legal concepts and the judicial system with emphasis on business law.
400. International Field Experience (3).

On-site study of business, government institutions, and financial markets within dominant and emergent international trade groups of nations.
Prerequisite(s): Junior status.
Notes: Course may be repeated for credit.

## 411. Information Technology in Business Administra-

 tion (3:2:1).The theory and application of information technology in business, including database management and web marketing and how these technologies contribute to building long-term relationships with customers.

Prerequisite(s): CSCI 101, MKTG 380.
450. Honors: Selected Topics in Business Administration (3).
Notes: Offered on demand.
492. Internship in International Business (3:3:0).

The internship in international business provides opportunities for student to integrate course work into practical work settings. This course applies the academic and conceptual to the practical; students supervised by faculty, will work a minimum of 150 hours during a semester or summer term.
Prerequisite(s): Two from MGMT 539, MKTG 529, FINC
514, ECON 521; Business majors only.
Notes: Permission of instructor required.

## 501. Estate Planning (3:3:0).

The study of wills, real estate, life insurance, and the federal income and estate gift laws.
Prerequisite(s): ACCT 280. ACCT 281 recommended.

## 503. Commercial Law (3:3:0).

The study of legal issues and problems in American business and commerce.
Prerequisite(s): BADM 350.
510. Sport Law (3:3:0).

The study of state and federal laws and regulations that control and impact professional and amateur sport activities.
Prerequisite(s): ACCT 280.
561. Electronic Commerce for Managers (3:3:0).

This course focuses on the management of e-commerce and its major opportunities, limitations, issues and risks. Since e-commerce is interdisciplinary, professionals in any functional area will find it of interest.
Prerequisite(s): MGMT 341 or MGMT 661.
580. Financial Markets Seminar (3).

This course provides lectures, panel discussions and site visits relevant to the world of business through the participation in a weeklong seminar series in New York City and Washington, D.C. and other possible locations.
Prerequisite(s): ACCT 280. ACCT 281 recommended.
581. Special Topics in Business Administration (3).

A study of a topic in the area of business administration. Prerequisite(s): Permission of instructor.
Notes: Course maybe repeated for credit.
595. Research in Business Administration (3).

Prerequisite(s): Permission of dean, College of Business Administration.
Notes: May be retaken for additional credit.

## Chemistry (CHEM)

In the following listing of courses, the lecture and laboratory courses are listed separately. Concurrent registration on the same grade and credit basis or prior passing of corequisite
courses is required. Concurrent dropping or withdrawal of corequisite courses, if necessary, is also required.
101. Applying Chemistry to Society (3).

Applying Chemistry to Society is a course designed to familiarize the student with the basic principles of chemistry and how these principles to the world around us.
105. General Chemistry I (3).

An introductory chemistry course for those who intend to major in the sciences. Three lecture hours and one recitation per week.
Prerequisite(s): One unit of high school algebra. Recommended SAT MATH score of 500 .
Corequisite(s): CHEM 107.
Notes: Offered in the fall, spring and summer.
106. General Chemistry II (3).

An introductory chemistry course for those who intend to major in the sciences.
Prerequisite(s): A grade of C or better in all of the follow-
ing: CHEM 105, CHEM 107.
Corequisite(s): CHEM 108.
107-108. General Chemistry Laboratory (1:0:3) (1:0:3).
Prerequisite(s): CHEM 107 is prerequisite to CHEM 108.
Corequisite(s): CHEM 105-106.
Notes: Lab Fee: $\$ 40$. Offered in the fall, spring and summer.
117. Introductory Environmental Chemistry (3).

A lecture course to develop a fundamental chemical understanding of modern environmental issues involving air, water, toxic substances, and energy. Students will be expected to demonstrate a technical literacy with issues such as photochemical smog formation, global warming, ozone depletion, acid rain, visibility and aerosols, toxic substances in the environment, water quality and treatment, pesticides, acute/chronic effects of toxic chemicals on humans, environmental tradeoffs involving current and alternative means of energy production, pollutant transport, and environmental problems facing rapidly growing metropolitan regions.
Notes: Offered as needed.
301. Organic Chemistry I (3).

Study of the structure, preparation and chemical and physical properties of organic compounds.
Prerequisite(s): A grade of C or better will be required in all of the following:CHEM 106, CHEM 108.
Corequisite(s): CHEM 303.
Notes: Offered in fall and summer.
302. Organic Chemistry II (3).

Study of the structure, preparation and chemical and physical properties of organic compounds.
Prerequisite(s): A grade of C or better in the following: CHEM 301.
Corequisite(s): CHEM 304.
Notes: Offered in the spring.

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303-304. Organic Laboratory (1:0:3) (1:0:3).
Corequisite(s): CHEM 301-302.
Notes: Lab Fee: $\$ 40$. A student may not receive credit for CHEM 311 (or equivalent) and either CHEM 303 or 304.
Offered in the fall, spring and summer.

## 305. Chemical Hygiene and Safety (1).

A course in chemical hygiene and safety. Topics covered include chemical storage, chemical hygiene plans, labeling, response procedures, MSDS's, clean-up techniques, right-to-know requirements, TLV's, chemical hazards, and lab safety procedures.
Prerequisite(s): C or better in each of the following: CHEM
105-108, CHEM 301-304.
Notes: Offered in spring.

## 312. Introductory Chemometrics (1).

A short course that introduces the statistical/mathematical evaluation of chemical measurements to include statistics, linear and nonlinear calibration techniques, error propagation, sampling statistics, modeling, experimental design, and Fourier transforms.
Corequisite(s): CHEM 313.
Notes: Lab Fee: $\$ 40$. Offered in the fall.
313. Quantitative Analysis (3).

A study of some of the classic and modern techniques of quantitative chemical analysis and their theoretical bases. Prerequisite(s): A grade of C or better will be required in all of the following:CHEM 106, CHEM 108.
Corequisite(s): CHEM 314, CHEM 312.
Notes: Offered in the fall.
314. Quantitative Analysis Lab (1:0:3).

A laboratory course to apply modern analysis technology.
Prerequisite(s): A grade of C or better in all of the
following:CHEM 106, CHEM 108.
Notes: Lab Fee: $\$ 40$. Offered in the fall.
315. Environmental Chemistry (3).

A study of modern environmental chemistry topics:
CFC's and ozone depletion, photochemical smog, acid
rain, particulates, greenhouse effect, indoor air pollution, asbestos, radon, pesticides, PCB's, PAH's, dioxins, water quality and treatment, heavy metals in soils, and energy sources.
Prerequisite(s): A grade of C or better in all of the following:CHEM 106, CHEM 108.
Notes: Offered in the fall.
330. Introductory Inorganic Chemistry (3).

Introduction to principles of inorganic chemistry including electronic structure of atoms, theories of structure and bonding, and descriptive chemistry of the elements.
Prerequisite(s): A grade of C or better in all of the
following:CHEM 105, CHEM 106, CHEM 107, CHEM 108. Notes: Offered in the fall.

## 332. Inorganic Chemistry Laboratory (1:1:3).

Synthesis and characterization of inorganic compounds including main group, transition metal, and organometallic species.
Prerequisite(s): A grade of C or better in all of the follow-
ing: CHEM 105, CHEM 106, CHEM 107, CHEM 108.
Corequisite(s): CHEM 330.
Notes: Lab Fee: $\$ 40$. Offered in the fall semester.
340 A, B, C. Cooperative Education Experience (1) (2) (3). Provides on-the-job training in a professional field related to a student's major or career interests.
Prerequisite(s): 2.5 GPA and minimum of 24 earned undergraduate semester hours. Placement objectives must be approved by Department Chair prior to enrollment. Notes: For chemistry majors only. Courses may be repeated for credit. Hours do not count toward required hours in Chemistry. A grade of S or U is recorded. Offe red in the fall, spring and summer.
351. Independent Study (1) (2) (3).

Independent study at the sophomore/junior level.
Prerequisite(s): CHEM 105.
Notes: Lab Fee: $\$ 40$. A grade of S or U is recorded. Offered in the fall, spring and summer.
407. Physical Chemistry I (3).

A calculus-based study of the theoretical foundations of chemistry.
Prerequisite(s): A grade of C or better in all of the following:MATH 202, PHYS 202 or PHYS 212.
Corequisite(s): CHEM 409, CHEM 313, CHEM 314.
Notes: Offered in the fall.
408. Physical Chemistry II (3).

A calculus-based study of the theoretical foundations of chemistry.
Prerequisite(s): A grade of C or better in all of the following: MATH 202, PHYS 202 or PHYS 212, CHEM 313, CHEM 314, CHEM 407.
Corequisite(s): CHEM 410.
Notes: Offered in spring.
409-410. Physical Chemistry Laboratory (1:0:3) (1:0:3).
Corequisite(s): CHEM 407-408.
Notes: Lab Fee: $\$ 40$. Offered in the fall and spring.
450. Honors: Selected Topics in Chemistry (3).

An in-depth independent inquiry into a selected topic in Chemistry.
Prerequisite(s): Permission of the Department Chair.
Notes: Offered in fall and spring.
461, 462, 463. Academic Internships in Chemistry (1) (2)
(3).

Prerequisite(s): Open only to students majoring in chemistry. Prior approval from the Department Chair and Dean of the College of Arts and Sciences is required.
Notes: A grade of $S$ or $U$ is recorded. Offered in fall, spring and summer.
490. Seminar (1).

Prerequisite(s): 12 hours of CHEM and consent of the instructor. May not be taken more than three times for credit.
Notes: Offered in the fall.
491. Department Seminar (0).

A department seminar program in which outside visitors present seminars on current research or on another relevant topic.
Prerequisite(s): C or better in each of the following: CHEM 105-108, CHEM 301-303.
Notes: Offered in fall and spring.
492. Department Seminar (0).

A department seminar program in which outside visitors present seminars on current research or on another relevant topic.
Prerequisite(s): C or better in each of the following: CHEM
105-108, CHEM 301-303.
Notes: Offered in fall and spring.

## 493. Department Seminar (0).

A department seminar program in which outside visitors present seminars on current research or on another relevant topic.
Prerequisite(s): C or better in each of the following:
CHEM 105-108, CHEM 301-303.
Notes: Offered in fall and spring.
494. Department Seminar (0).

A department seminar program in which outside visitors present seminars on current research or on another relevant topic.
Prerequisite(s): C or better in each of the following:CHEM 105-108, CHEM 301-303.
Notes: Offered in fall and spring.
502. Instrumental Analysis (3).

A study of contemporary methods and techniques of analysis of inorganic and organic materials.
Prerequisite(s): A grade of C or better in all of the
following:CHEM 313, CHEM 314, CHEM 301, CHEM 303.
Corequisite(s): CHEM 302, CHEM 304, CHEM 503.
Notes: Offered in spring.
503. Instrumental Analysis Laboratory (1:0:3).

Prerequisite(s): CHEM 303 and 314.
Corequisite(s): CHEM 502.
Notes: Lab Fee: $\$ 40$. Offered in spring.
504. Instrumental Data Interpretation (1:0:3).

Interpretation of spectral, chromatographic and electrochemical data.
Prerequisite(s): A grade of C or better in all of the
following:CHEM 302, CHEM 304, CHEM 313, CHEM 314.
Corequisite(s): CHEM 502 and 503.
Notes: Lab Fee: $\$ 40$. Offered in spring.
515. Special Topics in Chemistry (3).

Topics in chemistry selected by the instructor.
Prerequisite(s): Junior status and permission of instructor. Notes: Offered in spring or fall. May be retaken for additional credit.

## 517. Advanced Environmental Chemistry (4:3:3).

A course to develop an in-depth understanding of the molecular basis for contemporary environmental problems involving air, water, soil, energy generation, and
toxic substances. Topics covered include reaction mechanisms for stratospheric ozone production, and dioxin/ dibenzofuran formation; complex equilibria of natural waters; biochemical toxicology of heavy metals, pesticides, PCB's, and PAH's; indoor air pollution; endocrine disrupters; ground and surface water contamination; biodegradability and transport of modern pesticides; and air/water equilibria. The course text is supplemented with readings from recent literature to focus on environmental problems facing rapidly growing metropolitan areas. Laboratory work requires demonstrated competence with advanced analytical instrumentation, field sampling, data analysis, and modeling.
Prerequisite(s): A grade of C or better in: CHEM 302,
CHEM 304, CHEM 313, CHEM 314.
Notes: Lab Fee: $\$ 40$. Offered in fall.
521. Nutritional Biochemistry (3).

A comprehensive study of the biochemical and physiological fundamentals of nutrition.
Prerequisite(s): CHEM 301, CHEM 303 with C or better. Open to nutrition majors only. Permission of instructor. Notes: Offered in the fall and spring.
522. Nutritional Biochemistry Laboratory (1:1:3).

A laboratory course to be taken in conjunction with the nutritional biochemistry lecture course, CHEM 521.
Corequisite(s): CHEM 521.
Notes: Lab Fee: $\$ 40$. Offered as needed.

## 523. Biochemistry I (3).

A study of the structure, chemistry and macromolecular interactions of biochemical systems; enzyme mechanisms and kinetics, bioenergetics, intermediary metabolism, principles of biochemical techniques and molecular genetics.
Prerequisite(s): A grade of C or better in all of the follow-
ing: CHEM 302, CHEM 304, BIOL 203, BIOL 204.
Corequisite(s): CHEM 525.
Notes: Offered in fall.
524. Biochemistry II (3).

A study of the structure, chemistry and macromolecular interactions of biochemical systems; enzyme mechanisms and kinetics, bioenergetics, intermediary metabolism, principles of biochemical techniques and molecular genetics.
Prerequisite(s): A grade of C or better in the following: CHEM 523.
Notes: Offered in spring.
525. Biochemistry Laboratory Techniques (1:1:3).

Laboratory emphasizes modern biochemical techniques of protein purification, assaying enzyme activity and enzyme kinetics.
Prerequisite(s): CHEM 302 and CHEM 304 with a C or better.
Corequisite(s): CHEM 523.
Notes: Lab Fee: $\$ 40$. Offered in spring.

## 526. Advanced Investigative Biochemistry Laboratory (2:0:6).

An advanced lab course in advanced biochemical protein

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techniques. The work centers on laboratory investigations in an area of modern research interest that will require students to learn and to demonstrate a mastery of multiple protein techniques.
Prerequisite(s): C or better in each of the
following:CHEM302, CHEM304, CHEM523, CHEM525.
Corequisite(s): CHEM524.
Notes: Lab Fee: $\$ 80$. Offered in spring of odd years.

## 527. Biochemical Toxicology (3).

An in-depth study of the biochemical, molecular, and cellular mechanisms through which toxicants alter cellular homeostasis, produce toxicity and alter organ function. Prerequisite(s): CHEM 523. Permission of the instructor.
Notes: Offered as needed.

## 530. Inorganic Chemistry (3).

An intermediate level study of atomic and molecular structure, bonding, crystals, coordination compounds and selected topics.
Prerequisite(s): A grade of C or better in all of the
following:CHEM 313, CHEM 314, CHEM 330, CHEM 332,
CHEM 407, CHEM 409.
Corequisite(s): CHEM 408, 410 and 502.
Notes: Offered every even year in spring.
541. Chemical Kinetics (1).

An advanced course in the fundamental principles of chemical kinetics in homogeneous liquid and gaseous systems and at solid surfaces.
Prerequisite(s): CHEM 407 and 409.
Corequisite(s): CHEM 408, CHEM 410.
Notes: Offered in spring/odd years.

## 542. AB Initio Methods in Computational Chemistry (1:.67:1).

An advanced course that focuses on the principles and techniques of ab initiocomputational chemistry - HartreeFock and density functionality. Students will use these methods to calculate a number of chemical thermodynamic properties.
Prerequisite(s): CHEM 302, CHEM 304, CHEM 407, CHEM 409.
Corequisite(s): CHEM 408, CHEM 410.
Notes: Offered in spring.

## 551. Research (3).

Prerequisite(s): CHEM 407, 409 and permission of instructor.
Notes: Lab Fee: \$40. Offered in fall, spring and summer. May be retaken a maximum of three times for additional credit.

## 552. Research (3).

Prerequisite(s): CHEM 551 or equivalent.
Notes: Lab Fee: $\$ 40$. Offered in fall, spring and summer.

## 553. Independent Study in Chemistry (3:0:9).

Directed advanced research.
Prerequisite(s): Permission of Department chair and CHEM 552.
Notes: Lab Fee: \$40. Offered in fall, spring and summer.
560. Atomic Spectroscopy (1).

An advanced course that focuses on the principles and techniques of modern atomic spectroscopy, to include signal generation in atomic spectroscopy, signal-to-noise concepts, the range of techniques and instrumentation used in atomic spectroscopy, methods of analysis, and horizon techniques in atomic spectroscopy.
Prerequisite(s): CHEM 302, CHEM 313, CHEM 407, CHEM 502.
Notes: Lab Fee: $\$ 40$. Offered in spring/even years.
561. Gas Chromatography (1).

An advanced course that focuses on the principles and techniques of modern gaschromatography, to include separation theory, stationary phases, column technology, GC inlets, injection techniques, detectors, thermodynamic retention modeling, and temperature/pressure effects. Prerequisite(s): CHEM 302, CHEM 313, CHEM 407, CHEM 502.
Notes: Lab Fee: $\$ 40$. Offered in spring/even years.

## 562. Molecular Spectroscopy (1).

An advanced course that focuses on the principles and techniques of modern molecular spectroscopy, to include signal generation in molecular absorption and luminescence spectroscopy, signal-to-noise concepts, the range of techniques and instrumentation used in molecular absorption and luminescence spectroscopy, methods of analysis and horizon techniques in molecular spectroscopy.
Prerequisite(s): CHEM 302, CHEM 313, CHEM 407, CHEM 502.
Notes: Lab Fee: $\$ 40$. Offered in fall/even years.

## 563. Liquid Chromatography (1).

An advanced course that focuses on the principles and techniques of modern liquid chromatography, to include separation theory, instrumentation, stationary and mobile phases, column technology, injection techniques, detectors and chiral separations.
Prerequisite(s): CHEM 302, CHEM 313, CHEM 407, CHEM 502.
Notes: Lab Fee: $\$ 40$. Offered in spring/odd years.

## 564. Mass Spectrometry (1).

An advanced course that focuses on the principles, techniques and applications of modern mass spectrometry, to include ion trap MS, electrospray LC/MS, time of flight mass spectrometry, ICP-MS and MALDI. Prerequisite(s): CHEM 502, CHEM 503.
Notes: Lab Fee: $\$ 40$. Offered in fall/odd years.
565. Chemometrics (1).

A course in chemometric methods, theory and techniques. Prerequisite(s): CHEM 313.
Notes: Lab Fee: $\$ 40$. Offered in spring odd years.

## 566. Sample Preparation (1).

An advanced course that focuses on the principles and techniques involved in sample collection and treatment, including standard reference materials, sampling of mixtures, dissolution and digestion, extraction and dialysis, purge and trap, supercritical fluid extraction and
flow injection analysis.
Prerequisite(s): CHEM 302, CHEM 313, CHEM 407,
CHEM 502.
Notes: Lab Fee: $\$ 40$. Offered in fall/odd years.
567. NMR Spectroscopy (1).

An advanced course in modern NMR Spectroscopy covering relaxation measurements, two-dimensional NMR techniques and multinuclear NMR.
Prerequisite(s): CHEM 408, CHEM 410, CHEM 502, CHEM 503.
Notes: Lab Fee: $\$ 40$. Offered in fall even years.
570. Chemical Synthesis (2:0:6).

An advanced lab course in chemical synthesis and
characterization. Emphasis is on specialized techniques for synthesizing organic and inorganic compounds.
Prerequisite(s): C or better in each of the following:
CHEM 302, 304, 313, 314, 330, 332, 407 and 409.
Corequisite(s): CHEM 502 and 503.
Notes: Lab Fee: $\$ 80$. Offered in spring/even years.

## 580. Laboratory Experimental Design and Preparation/

 Stockroom Procedures (1).Development and selection of teaching materials that reflect concepts of content and emphasis in middle and secondary school science. Experimental and laboratory approaches, including use of microcomputer and video technologies.
Prerequisite(s): CHEM 301.

## 581. Literature of Chemical Education/Teaching Assistant Experience (1).

Explores the evolution of chemical education and chemical education research with special emphasis on current trends. Utilizing the participant-observed role, required participation in selected educational situations with emphasis upon developmentof observational skills, ability to record relevant observations by means of written journals, skills in analyzing experiences identifying critical incidents and projection of events and consequences. Notes: Offered as needed.

## Chinese (CHIN)

101. Elementary Chinese (4).

Notes: Lab Fee: $\$ 25$. Offered in the fall.
102. Elementary Chinese (4).

Prerequisite(s): Students who elect to take a 101 language course must receive at least a $C$ (or $S$ ) in that language course before continuing on to 102 of that language.
Notes: Lab Fee: $\$ 25$. Offered in the spring.

## 201. Intermediate Chinese (3:3:1).

The four basic language skills will be emphasized (understanding, speaking, writing, and reading). Cultural material, whenever appropriate, will be included to augment class discussions.
Prerequisite(s): CHIN 102 or permission of instructor.
Notes: Lab Fee: $\$ 25$. Offered on demand.

## 202. Intermediate Chinese (3:3:1).

A continuation of the skills learned in Chinese 201. The study of Chinese culture is also emphasized.
Notes: Lab Fee: $\$ 25$. Offered on demand.

## Community Volunteer Service (CMVS)

201. Introduction to Community Volunteer Service (3). A study of the theoretical, historical, and practical aspects of volunteerism with emphasis on community service addressing regional problems and needs.
Notes: Offered on demand.

## Computer Science (CSCI)

## 101. Introduction to Computers and Information Processing (3:1.5:3).

This course provides an introduction to using computer systems. In the laboratory, students use microcomputers to learn software packages such as word processing, spreadsheets, database, and a web development system. In the lecture, general computer concepts are presented, issues relating to computers are considered, and the student learns to develop a web-based system using a manipulation language such as HTML and a scripting language such as Javascript.
Notes: Degree credit will not be given for both CSCI 101 and CSCI 105 or CSCI 101 and 110.
105. Introduction to Microcomputer Applications (1:0:3). A course that is the laboratory component of CSCI 101/ CSCI 110. The course is intended for transfer students who have completed the equivalent of the lecture component of CSCI 101/CSCI 110, but who need instruction in the laboratory component.
Notes: Degree credit will not be given for both CSCI 101 and 105 or CSCI 110 and 105.

## 110. Introduction to Computers and Programming (3:2:3).

An introductory course in which no prior computing or programming experience is assumed. This course is more appropriate than CSCI 101 for students with no prior programming experience who might take CSCI 207. It is also appropriate for students desiring a more technical course than CSCI 101.
Corequisite(s): MATH 101 or any course that requires MATH 101 as a prerequisite.
Notes: Degree credit will not be given for both CSCI 101 and CSCI 110 or CSCI 105 and CSCI 110.
151. Overview of Computer Science (3:2:2).

This course is oriented toward mathematics and science majors. A wide range of topics in Computer Science will be studied.

## 207. Introduction to Computer Science I (4:3:2).

An introduction to problem-solving methods, algorithm development, and a high-level programming language. Procedural and data abstraction are emphasized early in the course. Students are introduced to object-oriented

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programming concepts. Students learn to design, code, debug, and document programs using proper programming techniques.
Prerequisite(s): CSCI 101 or 110 or 151 (110 or 151 recommended), or high school equivalent, and MATH 101 or any MATH course that requires MATH 101 as a prerequisite.
Notes: Students expecting to take CSCI 208 should take MATH 261 with CSCI 207.
208. Introduction to Computer Science II (4:3:2).

A continuation of CSCI 207. The course continues the development of procedural and object-oriented programming concepts and implementation. The course also introduces the student to elementary data structures (lists, stacks, binary trees, sequential files), to the common algorithms used with these data structures, and to algorithm analysis.
Prerequisite(s): A grade of C or better in CSCI 207 Co-requisite(s): MATH 261 or 300.
211. Introduction to Assembly Language and Computer Architecture (3).
A study of the basic techniques of assembly language programming and an introduction to the conventional machine level of computers. The course includes the study of the function and operations of the assembler, the study of the architecture and operations of processors, and the interface to high-level languages.
Prerequisite(s): CSCI 208, MATH 261 or 300.
271. Algorithm Analysis and Data Structures (3).

The study of the structure of data and the efficient manipulation of such structure. Algorithm analysis and design and the appropriate use of recursion are emphasized.
Prerequisite(s): A grade of C or better in CSCI 208; MATH 261 or 300, MATH 201 or 105.
The following one-hour courses, CSCI 291, 292, 296, 297, and 298, provide students with a vehicle for learning a specific programming language. Each student must write a series of programs in the language, and be knowledgeable in the details of the language. Each course is self-paced and supervised.

## 291. The COBOL Language (1).

Prerequisite(s): A grade of C or better in CSCI 208.

## 292. The FORTRAN Language (1).

Prerequisite(s): A grade of C or better in CSCI 208.
Notes: Offered on demand.

## 293. The C\# Language (1).

Prerequisite(s): A grade of C or better in CSCI 208.
Notes: Offered on demand.

## 294. Local Operating Systems and Programming Lan-

 guages (1).A course for students with transfer credit for a course in the principles and methods of programming. The course presents information about local computer systems that is necessary for the student to be able to use those systems effectively.
Prerequisite(s): Permission of Instructor.
Notes: Offered on demand.
297. The Ada Language (1).

Prerequisite(s): A grade of C or better in CSCI 208.
Students may not enroll in CSCI courses numbered above 299 unless they have at least a 2.00 grade-point average, at least 54 semester hours and a grade of C or better in CRTW 201 or WRIT 102.

## 311. Computer Architecture and Organization (3).

An introduction to the concepts and methods of constructing the hardware and software of a computer system. The course emphasizes the study of the digital logic components, the microprogramming language that supports a machine language, and exposure to advanced computer architectures.
Prerequisite(s): A grade of C or better in CSCI 211.

## 325. File Structures (3).

The study of external storage devices and file organization techniques for such devices. The course includes an indepth treatment of the space and time efficiency of each file organization studied.
Prerequisite(s): MATH 261 or 300, and a grade of C or better in CSCI 208.

## 327. Social Implications of Computing (3).

A study of the impact of technology and computing on society and the relationship of the subject matter to professionalism in the field of computing. Topics include: computer ethics and ethical theories, professional behavior, legal issues including intellectual property, personal privacy, computer security, and computer access. Prerequisite(s): Junior standing and either a BADM major or BADM/CIFS concen or permission of the department chair.
Notes: Intensive writing course.

## 340 A, B, C. Cooperative Educational Experience (1) (2)

 (3).Provides on-the-job training in a professional field related to a student's major or career interests. Credit of 1, 2 or 3 semester hours for a minimum of 15,30 or 40 hours per week for a minimum of 14 weeks. This course may not be counted as a Computer Science elective in the Bachelor of Science degree program in Computer Science. Co-op students are required to register for this course each semester they are working.
Prerequisite(s): 2.5 GPA and permission of the Chair of the Department of Computer Science and Quantitative Methods.
Notes: For Business Administration majors only. Courses may be repeated for credit; however, a maximum of 3 hours may be applied toward a degree in Business Administration. A grade of $S$ or $U$ is recorded.

## 371. Theoretical Foundations (3).

Relations and functions; elementary graph theory; automata and language theory; computability theory. Prerequisite(s): MATH 261, CSCI 208.

## 381. Numerical Algorithms (3).

A survey of numerical methods for solving elementary mathematical problems. The course includes finding
roots of equations, numerical integration and differentiation, interpolation and extrapolation, spline functions, and solving simultaneous equations.
Prerequisite(s): CSCI 208 and MATH 201.
Notes: Available on sufficient demand.

## 391. Programming in Visual Basic (1).

An introduction to the Visual Basic programming system. Prerequisite(s): CSCI 271 or 325 or permission of instructor.

## 392. Programming in Java (1).

An introduction to the Java programming language. Prerequisite(s): CSCI 271 or 325 or permission of the instructor.
398. Advanced C++ Programming (1).

Advanced $\mathrm{C}++$ language topics and programming techniques not covered in previous courses.
Prerequisite(s): CSCI271 or CSCI 325.
411. Operating Systems (3).

A survey of the function of an operating system and the concepts necessary for the design of an operating system. Students are required to program a part of a subsystem. Prerequisite(s): A grade of C or better in CSCI 211.
431. Organization of Programming Languages (3).

The study of different types of programming paradigms and languages associated with the paradigms. Students are introduced to language design and translation. Prerequisite(s): CSCI 211, 271 and 371.
440. Introduction to Computer Graphics (3).

The study of the geometry, mathematics, algorithms, and software design techniques of computer graphics. Students are required to program parts of a graphics application package.
Prerequisite(s): MATH 101 or 103 or 201, MATH 261 or 300, and a grade of C or better in CSCI 208.
444. Computer Graphics Concepts and Applications (3). This course is to acquaint the student with significant uses to which computergraphics commonly is applied and to develop an understanding of 2D and 3D geometry used in computer graphics.
Prerequisite(s): A grade of C or better in CSCI 208 and in one of MATH 105, or 201 or 300.
Notes: Available on sufficient demand.

## 455. Network Processing (3).

An introduction to the concepts, configurations, and methods of communication between computer systems. Uses the OSI model to study the functions and implementations of network systems. Students are provided indepth experience with several existing network systems, and study the problem of developing programs to operate across a network.
Prerequisite(s): CSCI 271 or 325.

## 461. Translator Construction (3).

A formal treatment of programming language translation and compiler design concepts. Students are required to
write a compiler for a small block-structured langage. Prerequisite(s): CSCI 431.
Notes: Available on sufficient demand.
471. Undergraduate Research in Computer Science (3). Students participate in scholarly research with a faculty member.
Prerequisite(s): Permission of department chair.
475. Software Engineering I (3).

The study of the basic principles of structured systems analysis and software requirements specification. Data flow diagrams, object-oriented analysis, and current charting techniques are emphasized in creating specification documents.
Prerequisite(s): CSCI 271, or 325 , or 555 .
476. Software Engineering II (3).

The study of formal software design principles emphasizing an engineering approach to the software development process. Students are required to participate in a team project. The project is the design, development, testing, and implementation of a software system.
Prerequisite(s): CSCI 475.
481. Special Topics in Computer Science (3).

An intensive investigation and analysis of a computer science problem or topic.
Prerequisite(s): Determined by the instructor.
Notes: Available on sufficient demand.
514. Control and Audit of Information Systems (3:3:0). This course will study the design of internal controls necessary for information systems and the testing necessary to assure the data integrity of the system. Audit techniques, especially computerized audit software, will be analyzed and audit approaches designed. Audit work plans and measures of asset safeguarding will be prepared and evaluated.
Prerequisite(s): ACCT 280 and MGMT 341 or MGMT 661. Notes: Cannot be used as a BS in Computer Science Area VIII elective.
555. Database Processing (3:3:0).

The study of the fundamental concepts and principles of database systems and processing. Several database models are considered with emphasis on the relational model. The student creates, loads, and accesses a database using at least two existing database management systems. Prerequisite(s): A grade of C or better in CSCI 208.

## 570. Parallel Computing (3).

Survey of the architectures and algorithms to support Parallel Programming. Students will learn to program a parallel system for a variety of problem topics.
Prerequisite(s): CSCI 271 and CSCI 311.
Notes: Available on sufficient demand.
581. Special Topics in Computer Science (3).

A study of a topic in the area computer science. Prerequisite(s): Permission of chair.
Notes: Course may be repeated for credit.

## Critical Reading, Thinking and Writing (CRTW)

201. Critical Reading, Thinking, and Writing (3). Examines the language of critical thinking and argumentation and focuses on the connection between writing and critical thinking, using critical reading and thinking as springboards for researched, argumentative writing assignments.
Prerequisite(s): WRIT 101 and GNED 102 with grades of C or better.
Notes: A grade of C or better is required in CRTW 201. Offered in fall, spring, and summer.

## Critical Thinking and Quantitative Reasoning (CTQR)

150. Quantitative Methods in Critical Thinking (3). The basic quantitative skills, and their applications, necessary for critical thinking. Topics include: sets, logic, argument validation, probability, and basic statistics. Notes: Degree credit will not be given for both MATH 140 and CTQR150.

## Dance Applied Technique (DANA)

101. Beginning Modern Dance (1:2).

Notes: Lab Fee: $\$ 3$. Offered in fall and spring.
102. Intermediate Modern Dance (1:2).

Prerequisite(s): DANA 101 or equivalent.
Notes: Lab Fee: \$3. Offered in spring.
104. Beginning Ballet (1:2).

Notes: Lab Fee: $\$ 3$. Offered in fall and spring.

## 105. Intermediate Ballet (1:2).

Prerequisite(s): DANA 104 or equivalent.
Notes: Lab Fee: \$3. Offered in spring.
111. Modern Dance Ia (1:3).

Intensive course for the dance major in the fundamentals of modern dance.
Prerequisite(s): Placement audition or permission of instructor.
Notes: Lab Fee: \$3. May be repeated for credit. Offered in fall.

## 112. Modern Dance Ib (1:3).

Continuation of materials in DANA 111.
Prerequisite(s): DANA 111 or permission of the instructor.
Notes: Lab Fee: $\$ 3$. May be repeated for credit. Offered in spring.

## 121. Ballet Ia (1:3).

Intensive course for the dance major in beginning ballet technique.
Prerequisite(s): Placement audition or permission of the instructor.
Notes: Lab Fee: \$3. May be repeated for credit. Offered in fall.
122. Ballet Ib (1:3).

Continuation of materials in 121.
Prerequisite(s): DANA 121 or permission of the instructor. Notes: Lab Fee: \$3. May be repeated for credit. Offered in spring.
180. Creative Movement (2:1:1).

This course introduces the content, method, and process for leading creative movement experiences. The creative process, elements of movement, and integration with other curricula are explored. The teaching methods used in this course enable students to design lessons appropriate for a wide range of ages, interests, and developmental stages.
Prerequisite(s): PHED 112.
Notes: Lab Fee: \$3. Offered in spring.

## 211. Modern Dance IIa (1:3).

Intensive intermediate level modern dance techniques.
Prerequisite(s): DANA 112 or permission of instructor.
Notes: Lab Fee: \$3. May be repeated for credit. Offered in fall.

## 212. Modern Dance IIb (1:3).

Continuation of materials in DANA 211.
Prerequisite(s): DANA 211 or permission of instructor.
Notes: Lab Fee: \$3. May be repeated for credit. Offered in spring.

## 221. Ballet IIa (1:3).

Intensive transition to intermediate ballet.
Prerequisite(s): DANA 122 or permission of the instructor. Notes: Lab Fee: \$3. May be repeated for credit. Offered in fall.

## 222. Ballet IIb (1:3).

Intensive course in intermediate ballet techniques.
Prerequisite(s): DANA 221 or permission of the instructor.
Notes: Lab Fee: $\$ 3$. May be repeated for credit. Offered
in spring.
230. Dance Training and Conditioning (1).

A training program for dancers and performing artists which provides sound principles and approaches to the development of a fitness level and body awareness appropriate for each person.
Notes: Lab Fee: $\$ 3$. Offered in fall and spring.
240. Tap Dance I (1:2).

Study and practice of the basic elements of tap dance and their use in simple combinations.
Notes: Lab Fee: $\$ 3$. Offered in fall.

## 241. Tap Dance II (1:2).

A continuation of DANA 240 Beginning Tap Dance.
Prerequisite(s): DANA 240 or permission of instructor.
Notes: Lab Fee: $\$ 3$. Offered in spring.
246. Social Dance (1:2).

Notes: Lab Fee: $\$ 3$. Offered in spring.
251. Jazz Technique I (1:2).

Notes: Lab Fee: $\$ 3$. Offered in fall.
252. Jazz Technique II (1:2).

Prerequisite(s): DANA 251 or equivalent.
Notes: Lab Fee: \$3. Offered in spring.
258. World Dance Forms (1:2).

A study of the fundamental movement elements associated with a survey of world dance forms.
Notes: Lab Fee: $\$ 3$. Offered in fall and spring.

## 311. Modern Dance IIIa (1:3).

Intensive advanced level modern dance technique.
Prerequisite(s): DANA 212 or permission of the instructor. Notes: Lab Fee: $\$ 3$. May be repeated for credit. Offered in fall.

## 312. Modern Dance IIIb (1:3).

Continuation of materials in DANA 311.
Prerequisite(s): DANA 311 or permission of the instruction.
Notes: Lab Fee: $\$ 3$. May be repeated for credit. Offered in spring.

## 321. Ballet IIIa (1:3).

An intensive technique course for those who have excelled in intermediate ballet and require continuation of challenging work to either achieve or maintain advanced ballet technique.
Prerequisite(s): Permission of instructor.
Notes: Lab Fee: $\$ 3$. May be repeated for credit. Offered in fall.

## 322. Ballet IIIb (1:3).

A continuation of DANA 321, Ballet IIIa.
Prerequisite(s): DANA 321 or permission of instructor. Notes: Lab Fee: $\$ 3$. May be repeated for credit. Offered in spring.
323. Pointe Technique I (1:0:2).

The introduction to ballet technique on pointe.
Prerequisite(s): Permission of the instructor.
Corequisite(s): One of the following: DANA 121, 122, 221, 222, 321, 322, 421, 422.
Notes: Lab Fee: $\$ 3$. Offered in fall. May be repeated for credit.

## 324. Pointe Technique II (1:0:2).

The continuation of ballet technique on pointe.
Prerequisite(s): Permission of the instructor.
Corequisite(s): One of the following: DANA 121, 122, 221, 222, 321, 322, 421, 422.
Notes: Lab Fee: $\$ 3$. Offered in spring. May be repeated for credit.

## 411. Modern IVa (1:0:3).

Advanced exercises and phrases which explore concepts of proper alignment, correct body usage, and breath and movement flow associated with modern technique will be developed to further expand the student's movement potential.
Prerequisite(s): DANA 312 or permission of the instructor. Notes: Lab Fee: $\$ 3$. Offered in fall. May be repeated for credit.
412. Modern IVb (1:0:3).

Advanced exercises and phrases which explore concepts of proper alignment, correct body usage, breath and movement flow associated with modern technique will be developed to further expand the student's movement potential. This courseis a continuation of DANA 411. Prerequisite(s): DANA 411 or permission of the instructor. Notes: Lab Fee: $\$ 3$. Offered in spring. May be repeated for credit.

## 421. Ballet IVa (1:0:3).

An advanced technique class which will build upon the student's understanding of ballet movement and its relationship to space, breath, alignment, and musicality. Contemporary and classical repertory will be explored. Prerequisite(s): DANA 322 or permission of instructor. Notes: Lab Fee: $\$ 3$. Offered in fall. May be repeated for credit.
422. Ballet IVb (1:0:3).

An advanced technique class which will build upon the student's understanding of ballet movement and its relationship to space. breath, alignment, and musicality. Contemporary and classical repertory will be explored. This course is a continuation of DANA 421.
Prerequisite(s): DANA 421 or permission of the instructor. Notes: Lab Fee: $\$ 3$. Offered in spring. May be repeated for credit.
442. Senior Thesis Showcase (1:2).

Advanced exploration into the choreographic process; students create original work under faculty supervision and present that work in public performance.
Prerequisite(s): DANT 200, 301, and senior status.
Corequisite(s): DANA 311, 312, 321, or 322.
Notes: Lab Fee: $\$ 3$. Offered in fall.
443. Dance Production: Practicum (1).

A class designed to apply, through practical experience, the necessary technical theatre skills needed for running a dance or theatre production.
Prerequisite(s): DANT 206.
Notes: Lab Fee: $\$ 3$. Offered in fall and spring. May be repeated for credit.
444. Dance Performance: Practicum (1).

Practical experience of the rehearsal process and performance in a faculty/guest artist-choreographed work.
Corequisite(s): DANA 111, 112, 121, 122, 211, 212, 221, 222, 311, 312, 411, 412, 421, 422.
Notes: Lab Fee: $\$ 3$. May be repeated for credit. Offered in fall and spring.

## Dance Theory (DANT)

110. Introduction to Dance (1).

An overview of the field of dance; benchmarks in the history of dance; professional career options; health and care of the dancer's body; the study of dance. Notes: Designed for students entering/considering serious study of dance. Offered in fall.

## DANCE THEORY

200. Improvisation (1:2).

Exploration of Laban principles of Time, Space, Weight
and Flow through structured improvisations. Emphasis is
placed upon conceptualizing the problem and the
dancer's instantaneous response to various catalysts.
Prerequisite(s): One technique class.
Corequisite(s): One technique class.
Notes: Offered in fall.

## 201. Choreography I (3).

Exploration, experimentation, and manipulation of rudimentary dance ideas resulting in phrases and studies which have repeatable, recognizable form.
Prerequisite(s): DANT 200 and DANA 112, 211 or equivalent.
Notes: Offered in fall and spring.

## 205. Music for Dance (3).

A study of the fundamental elements of music literature in relationship to the dynamics, rhythms, and intents of dance movement.
Notes: Offered in fall.

## 206. Dance Production (3).

Dance production theory and application skills to enable one to be knowledgeable about the technical, organizational, publicity, and dance considerations demanded in small and large scale productions.
Notes: Lab Fee: $\$ 10$. Offered in fall and spring.
210. Introduction to Dance Education (2:2:0).

An introductory course for the dance education student. This course will begin to emphasize the principles of teaching and prepare the student for the application of skills in planning, instructing, managing and assessing student in dance.
Notes: Offered in spring.

## 298. Dance Appreciation (3).

A survey of the significant developments in dance in relation to the other arts from the prehistoric period through the 20th century.
Notes: Offered in fall and spring.
301. Choreography II (3).

Pre-classic music and modern art sources from selected time periods serve as stimuli for dance studies, solo, and small group dance pieces.
Prerequisite(s): DANT 201.
Notes: Offered in spring.

## 340. Cooperative Education Experience in Dance (1) (2)

 (3).A cooperative education experience in a specified area of Dance that provides on-the-job training in a professional field related to a student's major or career interests.
Prerequisite(s): Overall GPA of 2.5, junior status, permission of Chair.
Notes: A grade of S or U is recorded. Offered in fall, spring and summer.

## 372. Dance Kinesiology (3:2:2).

The synthesis of the science of human motion and the art
of dance as applied to the facilitation of excellence in performance and the reduction of dance injury.
Prerequisite(s): Completion of DANA 211 and 221 or equivalent.
Notes: Offered in fall.

## 385. Dance History: Primitive Cultures through 19th

 Century (3).An analysis of dance from primitive cultures through the 19th century tracing its role as ritual, art form or popular entertainment within the social and political context of the time.
Prerequisite(s): Junior status.
Notes: Offered in fall.
386. Dance History: 1900-Present (3).

The study of continuing and new trends in theatre dance forms in Western and Eastern cultures through live performance, visual, and print media.
Prerequisite(s): Junior status.
Notes: Intensive Writing course. Offered in spring.

## 391. Principles of Teaching Dance: Curriculum and

 Pedagogy (3).Synthesizes curriculum practice K-12 in dance; design, development and evaluation. Addresses specific instructional needs and techniques in diverse settings.
Prerequisite(s): Admission to Teacher Education. DANT 541 or 542, 543.
Corequisite(s): DANT 392, EDUC 390, DANT 542
Notes: Offered in fall.

## 392. Field Experience in Teaching Dance (1:0:8).

This course uses laboratory experiences equivalent to 28 half days to lead dance education students through an exploration and examination of various research-based programs of instructional planning, methodology, classroom management, and evaluation of teaching and learning to complement content covered in DANT 391.
Prerequisite(s): Admission to Teacher Education.
Corequisite(s): DANT 391, EDUC 390.
Notes: Offered in fall.
393-399. Special Topics in Dance (1, 2, or 3).
Extension of individual opportunities in dance beyond existing departmental curriculum limits.
Prerequisite(s): Junior status.
Notes: Offered in fall and spring.
401. Choreography III (3).

Experimentation in the nonliteral dance forms and choreographic techniques.
Prerequisite(s): DANT 301.
Notes: Offered in spring.
432. Careers and Current Trends in Dance (3:3:0).

A capstone course for senior dance majors. This course will include aesthetics, contemporary issues and trends in dance, as well as audition, job search and studio management information.
Prerequisite(s): DANT 301, DANT 386.
Notes: Offered in fall.

490-499. Independent Study in Dance (1, 2, or 3).
An individually designed study specific to the aptitudes and interests of the student.
Prerequisite(s): Permission of Chair of Theatre and Dance. Notes: Offered in fall and spring.
540. Principles of Teaching Dance, K-12 (3:2:1).

The use of state and national dance standards for the conduct and organization of dance lessons in the schools will be explored and examined.
Prerequisite(s): DANT 210, DANT 372.
542. Dance Pedagogy: Modern, Jazz, Ballett (3:2:2). The use of pedagogical principles for the conduct and organization of dance lessons in modern, jazz and ballet. Prerequisite(s): DANT 372 and three of the following: DANA $112,122,211,212,221,222,311$ and 312 , or permission of instructor.
Notes: Offered in spring and summer.
598. Special Topics in Dance (1) (2) (3).

Extension of individual opportunities in dance beyond existing departmental curriculum limits.
Prerequisite(s): Permission of chair, Department of Theatre and Dance.
Notes: Offered in fall and spring. May be retaken for additional credit.

## Early Childhood Education (ECED)

109. Management and Supervision of Child Care Centers (2).

A study of the managerial principles, skills organization and operation of early childhood programs including supervision of staff and volunteers and program evaluation. Strategies to establish and maintain positive, collaborative relationships with families and the community will be devised. Students will learn about the growing opportunities for early childhood professionals in administering early childhood programs operated by corporations, agencies, governments and individuals as an avenue to contributing to a more successful business or service operation.
Notes: Teacher Education students must receive a grade of $C$ or better and may not elect the $S / U$ option. Offered in the fall and spring.

## 332. Introduction to Early Childhood Education (3).

A study of national early childhood models ( N -3rd grade), day care, Head Start, and other preschool facilities; state and federal regulations and history, societal changes, and contemporary trends.
Notes: Teacher Education students must receive a grade of $C$ or better and may not elect the $\mathrm{S} / \mathrm{U}$ option. Offered in the fall and spring.

## 333. Creative Activities for Young Children (3).

A study of concepts and content including room arrangement in the early childhood curriculum, methods and materials for developing creativity, and a review of relevant research. Observation and participation in two or more of the following settings: day care centers, private

DANCE THEORY/EARLY CHILDHOOD EDUCATION nursery schools, public schools, community agencies, and the Macfeat laboratory school. Students will observe and work with children of diverse ages (infants, toddlers, preschoolers or primary school age), and with children reflecting culturally and linguistically diverse family systems. Follow-up conferences will be held with classroom teachers and college faculty.
Prerequisite(s): EDCI 336 and admission to Teacher Education Program.
Notes: Teached Education students must receive a grade of $C$ or better and may not elect the $\mathrm{S} / \mathrm{U}$ option. Offered the spring and summer.

## 391. Teaching Social Studies in Early Childhood Educa-

 tion (3).A study of methods and materials in the teaching of early childhood social studies and a review of relevant research. Students will learn how to overcome cultural bias in a child care or classroom setting by including music, artwork, and a variety of culturally defined materials into the curricula. Students will apply the principles of planning, instruction, management, evaluation, and professionalism in a variety of field placements in which young children are served.
Prerequisite(s): Admission to Teacher Education Program, ECED 333.
Corequisite(s): EDUC 390 \& ECED 392.
Notes: Teacher Education students must receive a grade of $C$ or better and may not elect the $S / U$ option. Offered in the fall.

## 392. Field Experiences in Teaching Early Childhood Education (1:0:8).

Students will spend 8 hours per week in the classroom under the supervision of an early childhood education professor and will work with a mentor teacher in preparation for the final internship experience.
Prerequisite(s): Admission to Teacher Education Program. Corequisite(s): EDUC 390 and ECED 391.
Notes: A grade of S or U is recorded. Offered in fall.

## 432. Teaching Mathematics in Early Childhood Educa-

 tion (3).This course is designed to prepare students to teach mathematics in grades preK-4. It includes the study of content, methods and materials, and a review of relevant research.
Prerequisite(s): ECED 332, ECED 333 and admission to teacher education.
Notes: Teacher Education students must receive a grade of $C$ or better and may not elect the $\mathrm{S} / \mathrm{U}$ option. Offered in the fall.
433. Teaching Science in Early Childhood Education (3). This course is designed to prepare students to teach science in grades preK-4. It includes the study of content, methods and materials, and a review of relevant research. Prerequisite(s): ECED 332, ECED 333 and admission to teacher education.
Notes: Teacher Education students must receive a grade of $C$ or better and may not elect the $S / U$ option. Offered in the fall.

## EARLY CHILDHOOD EDUCATION/ECONOMICS/EDUCATION \& CURRICULUM \& INSTRUCTION

550. Special Topics in Early Childhood (3:3:0).

Current topics of concern and interest to early childhood caregivers, (teachers, headstart workers, family and children's service agencies etc.).
Notes: Inclusion of this course in a Program of Study requires the approval of the Program Area Committee.

## Economics (ECON)

## 103. Introduction to Political Economy (3).

The economics approach to current social issues such as inflation, unemployment, and the national debt. This course is designed for non-business majors.
215. Principles of Microeconomics (3:3:0).

The economic behavior of individual decision-making units in society with development of the concepts of consumer choice and business firm behavior under different market conditions.
216. Principles of Macroeconomics (3:3:0).

Analysis of macroeconomic topics including the factors affecting economic growth, inflation and unemployment. Prerequisite(s): ECON 215.

All ECON courses numbered above 299 have a prerequisite of junior status, an overall GPA of at least 2.00 and a $C$ or better in CRTW 201 or WRIT 102.
315. Microeconomic Analysis (3:3:0).

Advanced analysis of microeconomic topics dealing with the consumer, the firm, market institutions and social welfare.
Prerequisite(s): ECON 215 and ECON 216.
316. Macroeconomic Analysis (3:3:0).

Advanced analysis of contemporary macroeconomic theory and policy including the factors affecting economic growth, inflation and unemployment.
Prerequisite(s): ECON 215 and ECON 216.
331. Public Finance (3:3:0).

Microeconomic analysis of governmental activity, taxation and welfare implications.
Prerequisite(s): ECON 215.

## 335. Money and Banking (3:3:0).

Analysis of financial markets, central banks and monetary policy.
Prerequisite(s): ECON 215 and 216.

## 343. Environmental Economics (3:3:0).

Environmental economics is the application of the principles of economics to the study of how environmental resources are developed and managed.
Prerequisite(s): ECON 103 or ECON 215 or ECON 216.
345. Labor Economics (3:3:0).

Analysis of labor market experience at both the macroeconomic and microeconomic levels.
Prerequisite(s): ECON 215.
415. Managerial Economics (3:3:0).

Applications of economic principles and methods of analysis to managerial decision making.
Prerequisite(s): ECON 215.

## 491. Internship in Economics (3).

The internship in economics provides opportunities for students to integrate course work into practical work settings. This course applies the academic and conceptual to the practical; students supervised by faculty will work a minimum of 150 hours during a semester of a summer term.
Prerequisite(s): 2.5 GPA and grade of $C$ or better in at least two of these courses:ECON 315, ECON 316, ECON 331, ECON 335, ECON 345, ECON 415, ECON 521.
Notes: For Business Majors only. A grade of S or U is recorded.

## 521. International Trade and Investment (3).

Theory and policy in international trade and investment with emphasis on the motives and mechanisms of international economic and financial transactions. Prerequisite(s): ECON 215.

## Education and Curriculum and Instruction (EDCI)

305. Introduction to the Middle School (3:3:0).

The introductory course provides an overview of the basic philosophies, structure, and curricular aspects of middle schools. The development of middle schools, as well as current research related to exemplary middles schools, is examined. Students will develop the applicable skills and dispositions needed as prospective middle level teachers. Prerequisite(s): Admission to Teacher Education.
Notes: Offered as needed.

## 315. Developmental Aspects of Middle Level Learners

 (3:3:0).The course examines the developmental characteristics of early adolescents in today's society. In particular, the course focuses on aspects of diversity such as culture, gender, race, ethnicity and exceptionalities. Students will develop the applicable skills and dispositions needed as prospective middle level teachers.
Prerequisite(s): Admission to Teacher Education.
Notes: Offered as needed.
325. Content Literacy for Middle Level Learners (3:3:0). An examination of literacy strategies and materials appropriate for subject and interdisciplinary needs of developmentally diverse learners in middle schools. Students will develop the applicable skills and dispositions needed as prospective middle level teachers.
Prerequisite(s): EDCI 305, EDCI 315.
Notes: Offered as needed.
331. Community Connections for Families (3).

This course involves the study of children, family development, and community resources. The collaboration of family and community resources to support the development of children and families is the focus of the course.
Notes: Teacher Education students must receive a grade
of $C$ or better and may not elect the $\mathrm{S} / \mathrm{U}$ option. Offered in the fall and spring.
336. Young Children: Insuring Success (3).

Study of characteristics, needs, and appropriate service delivery systems which create success for young children and their families. This course will prepare professionals to consider such factors in meeting the needs of young children
Prerequisite(s): EDUC 210 or PSYC 306.
Notes: Teacher Education students must receive a grade of $C$ or better and may not elect the $\mathrm{S} / \mathrm{U}$ option. Offered in the spring.

## 392. Field Experiences in Middle Level Education (1:0:1).

The student will be able to apply principles of planning, instruction, management, assessment, and professionalism in directed field-based situations involving differing numbers of young adolescent learners, peers, parents, and other adults.
Corequisite(s): EDUC 390.
Notes: Offered in fall.

## Education, General Professional (EDUC)

110. Teachers, Schools and Society (3).

A survey course focusing on the foundations of education and expectations of the profession. Content includes historical, philosophical, legal, and societal influences on schools.
Notes: This course cannot be taken for $\mathrm{S} / \mathrm{U}$ credit. A grade of C or higher is required for Teacher Education majors. Offered in fall, spring, and summer.
175. Professional Field Experience (Teacher Cadet Program) (3).
Structured and supervised field experience for those exploring careers in teaching while in high school.
Prerequisite(s): High school Teacher Cadet program.

## 210. Nature and Nurturing of Learners I (3).

A study of the development of the learner through the lifespan, with emphasis on childhood and adolescence in the school setting. Topics include: physical, social, emotional, moral, language, and cognitive development. Prerequisite(s): EDUC 110.
Notes: This course cannot be taken for S/U credit. A grade of C or higher is required for Teacher Education majors. Offered in fall, spring and summer.

## 210E. Nature and Nurturing of Learners I Practicum Elementary (0:0:2).

Classroom observation component accompanying EDUC
210. Students observe in local public elementary school classrooms for a total of 8 hours to complete EDUC 210 assignments.
Corequisite(s): EDUC 210.

## 210M. Nature and Nurturing of Learners I Practicum Middle (0:0:2).

Classroom observation component accompanying EDUC
210. Students observe in local public middle school classrooms for a total of 8 hours to complete EDUC 210 assignments.
Corequisite(s): EDUC 210.
210S. Nature and Nurturing of Learners I Practicum Secondary (0:0:2).
Classroom observation component accompanying EDUC
210. Students observe in local public secondary school classrooms for a total of 8 hours to complete EDUC 210 assignments.
Corequisite(s): EDUC 210.
250. Nature and Nurturing of Learners II (3).

A study of theories of learning and motivation, individual differences (including culture, ethnicity, and gender), and their classroom application. Emphasisis on self-assessment of reflective practice, scholarship, and leadership. Prerequisite(s): EDUC 210 and 2.5 GPA.
Notes: This course cannot be taken for S/U credit. A grade of C or higher is required for Teacher Education majors. Offered in fall, spring and summer.

## 250E. Nature \& Nurturing of Learners II Practicum Elementary (0:0:2).

Classroom observation component accompanying EDUC 250. Students observe in local public elementary school classrooms for a total of 12 hours to complete EDUC 250 assignments.
Corequisite(s): EDUC 250.
250M. Nature \& Nurturing of Learners II Practicum Middle (0:0:2).
Classroom observation component accompanying EDUC
250. Students observe in local public middle school classrooms for a total of 12 hours to complete EDUC 250 assignments.
Corequisite(s): EDUC 250.

## 250S. Nature and Nurturing of Learners II Practicum Secondary (0:0:2).

Classroom observation component accompanying EDUC 250. Students observe in local public secondary school classrooms for a total of 12 hours to complete EDUC 250 assignments.
Corequisite(s): EDUC 250.
Notes: Offered in the fall, spring, and summer.

## 275. Integrating Technology to Support Teaching and Learning (2).

A methods course in which students learn to design instruction aligned with p-12 standards that uses technology to support teaching and learning.
Prerequisite(s): 30 hours, 2.5 GPA and an education major. Notes: Lab Fee: $\$ 15$. A grade of C or higher is required for Teacher Education majors. This course cannot be taken for $S / U$ credit. Offered in the fall.
310. Working With Exceptional and Diverse Learners (3). This course provides teacher education students with basic information concerning characteristics of, educational procedures for, and instructional needs of exceptional and diverse learners.

## EDUCATION, GENERAL PROFESSIONAL/ELEMENTARY EDUCATION/ENGLISH

Prerequisite(s): Admission to Teacher Education Program and completion of EDUC 250 with a grade of " $C$ " or better.
Notes: This course cannot be taken for $\mathrm{S} / \mathrm{U}$ credit. Offered in fall, spring and summer .
390. Core Issues In Teacher Education (3).

The course includes content central to all students seeking teacher certification including classroom management, assessment, and school law.
Prerequisite(s): Admission to Teacher Education.
Corequisite(s): Area Methods Course and Lab Designated by Major Area.
Notes: This course cannot be taken for S/U credit. Offered in fall.

450H. Education Honors Thesis (3).
Independent research of a topic in education requiring a command of research techniques and writing ability. Prerequisite(s): Admission to Teacher Education and Honors Program.
Notes: Offered on request.
475. Internship in Reflective Practice (10:0:10).

The course will provide applied experiences for developing skills for the professional role of a teacher. Primary focus is on a field-based component of 60-65 full days. Prerequisite(s): Completion of all methods courses and core courses except EDUC 490. Full admission to Teacher Education Program.
Corequisite(s): EDUC 490.
Notes: Offered in fall and spring.
490. Capstone For Educational Leaders (2).

The course will allow students to explore current issues in education as they relate to the educational leader. Primary focus is on completion and presentation of a professional portfolio.
Prerequisite(s): Full admission to Teacher Education.
Completion of all methods courses and core courses
except EDUC 475.
Corequisite(s): EDUC 475 Internship in Reflective
Practice.
Notes: Offered in fall and spring.
495. Special Topics in Education (1:3:0).

To identify specific problems and issues in education and to seek solutions through examination of current research and practice.
Prerequisite(s): Permission of instructor.
Notes: Offered on demand.

## Elementary Education (ELEM)

293. Laboratory Experiences in Public Schools (3:1:2). To provide direct teaching experiences with students under the supervision of a public school teacher.
Prerequisite(s): EDUC 110.
Notes: Offered in fall and spring.
294. Teaching Social Studies in the Elementary School (3).

The course is designed to prepare students to use the most up-to-date methods and procedures in the teaching of social studies in the elementary school.
Prerequisite(s): EDUC 250 \& Admission to Teacher Education. A grade of C or higher must be earned in each content course ( 15 hours): PLSC 201 or ECON 103, GEOG
101, HIST 211 or HIST 212 or HIST 308, SOCL 201 and
ANTH 201.
Notes: Offered in fall and spring.

## 391. Principles of Teaching Grades K-6 (3).

The student will understand the process by which an educator plans long-range integrated units of instruction and which includes development of goals/objectives, selecting appropriate strategies and developing appropriate assessment instruments.
Prerequisite(s): Admission to Teacher Education Program.
Corequisite(s): EDUC 390 and ELEM 392.
Notes: Offered in fall.
392. Field Experiences in Teaching Grades K-6 (1:0:1).

The student will be able to apply principles of planning, instruction, management, assessment, and professionalism in directed field-based situations involving differing numbers of learners, peers, parents, and other adults. Corequisite(s): EDUC 390 and ELEM 391.
Notes: A grade of S or U is recorded. Offered in fall.
431. Teaching Science in the Elementary School (3). A study of :1) the methods and materials of teaching science in the elementary school, 2) the relevant research on methods and materials, and 3) cognitive development. Prerequisite(s): Admission to Teacher Education; EDUC 210/250; grades of C better in PHYS 250/251 and BIOL 150/151 and GEOL 250/251.
Notes: Offered in fall and spring.
436. Teaching Mathematics in the Elementary School (3). Methods course for elementary education majors.
Prerequisite(s): MATH 291, MATH 292 with a grade of C or better; Admission to Teacher Education
Notes: Offered in fall, spring and summer.

## English (ENGL)

WRIT 101 is a prerequisite for all ENGL courses. WRIT 102 and a previous ENGL course are prerequisite to any 500-level ENGL course.
200. Introduction to Literary Genres (3).

Critical approaches to various literary genres, selected from poetry, drama, fiction, and film, with examples primarily from twentieth-century artists. ENGL200 will not count toward the English major.
Prerequisite(s): WRIT 101.
Notes: Offered in fall, spring and summer.
201. Major British Writers: Before 1800 (3).

Study of Beowulf, Chaucer, Shakespeare, Donne, Jonson, Milton, Dryden, Pope, Swift, and Johnson.

Notes: A student may not receive credit for both ENGL 201 and 203. Offered in fall.
202. Major British Writers: After 1800 (3).

Study of Wordsworth, Browning, a nineteenth-century novel, Yeats, Joyce, and Lawrence.
Notes: A student may not receive credit for both ENGL 202 and 203. Offered in spring.
203. Survey of British Literature (3).

Study of the major periods, literary forms, and issues that characterize British literature, with a consideration of representative major works and authors over the course of British literary history.
Notes: A student may not receive credit for both ENGL 203 and 201 or 202. Offered in fall, spring and summer.

## 205. World Literature Before 1700 (3).

Study of literary masterpieces by Plato, Sophocles, and Dante through the Renaissance.
Notes: A student may not receive credit for both ENGL 205 and 207. Offered in fall.

## 206. World Literature After 1700 (3).

Study of literary masterpieces by Voltaire, Goethe,
Flaubert, Tolstoy, Mann, Camus, Borges, and Marquez. Notes: A student may not receive credit for both ENGL 206 and 207. Offered in spring.

## 207. Survey of World Literature (3).

Study of the major periods, literary forms, and issues that characterize world literature with a consideration of representative major works and authors over the course of world literary history.
Notes: A student may not receive credit for both ENGL 207 and 205 or 206. Offered in fall, spring and summer.
208. Foundations in World Literature (3)

A survey of representative foundational major works and authors that characterize earlier world literature, excluding British and American literature, including the Ancient, Medieval, and Renaissance periods, and chronologically comparable non-Western works.
Notes: A student may not receive credit for ENGL 207 and 208 and ENGL 205 or 206.
209. American Literature Before 1860 (3).

Emphasis on literature of the Puritans, Franklin, Emerson,
Thoreau, Hawthorne, and Melville.
Notes: A student may not receive credit for both ENGL 209 and 211. Offered in fall.

## 210. American Literature After 1860 (3).

Representative fiction and poetry from Emily Dickinson and Mark Twain to contemporary writers such as James Baldwin and Flannery O'Connor.
Notes: A student may not receive credit for both ENGL 210 and 211. Offered in spring.
211. Major American Authors (3).

Study of selected major American authors from the
Puritans and the American Renaissance through Twain to the contemporary period.

Notes: A student may not receive credit for both ENGL 211 and 209 or 210 . Offered in fall, spring and summer.
300. Approaches to Literature (3).

Study of major critical approaches to literature including formalist, psychological, mythological, feminist, and postmodernist. Course also provides instruction and practice in literary research methods.
Prerequisite(s): Sophomore standing.
Notes: Restricted to English majors and minors. Intensive Writing course. Offered in fall and spring.

## 303. Grammar (3).

Review of traditional grammar and introduction to transformational grammar.
Prerequisite(s): Grade of C or better in WRIT 102.
Notes: Primarily for students who are being certified to
teach. Offered in fall and spring.
305. Shakespeare (3).

Study of 9 or 10 representative plays with emphasis on the tragedies.
Notes: Offered in fall and spring.
310, 311. Special Types of Literature (3) (3).
Concentration on one type, such as epic or satire, in interesting combinations of its use, past and present. Notes: Available on sufficient demand.
312. African American Literature (3).

Chronological survey of the writings of African Americans with emphasis on contemporary writers.
Prerequisite(s): One of the following: ENGL 209, 210, 211, or graduate status.
Notes: Offered every even year in spring.

## 317. The Short Story (3).

Study of this genre including selected stories by American, Irish, British, and European masters.
Notes: Offered in odd years in the fall.
319. The British Novel (3).

Study of this genre including its beginnings in the 18th century and representative works to the present.
Notes: Offered in the spring of odd years.
320, 321. Recurrent Themes in Literature (3) (3). Typical course titles: Biblical Themes in Literature; Coming of Age in 18th - to 20th- Century Fiction. Notes: Available on sufficient demand.
323. The Nineteenth-Century American Novel (3). Study of the nineteenth-century American novel, including authors such as Cooper, Hawthorne, Melville, Stowe, Twain, Howells, James, and Crane.
Notes: Offered in the fall of odd years.
324. The Twentieth-Century American Novel (3). Study of the twentieth-century American novel, including works from the modern and contemporary periods. Notes: Offered in spring of even years.

ENGLISH
325. Dramatic Literature (3).

Study of selected plays from the medieval period to the present.
Notes: Offered in the spring of even years.
330. Women and Literature (3).

This course draws upon the entire body of writing (fictional and non-fictional) by and/or about women. In different semesters, it may focus on different themes, periods, genres, authors, or issues related to women. Prerequisite(s): Writing 102.
Notes: Offered in the spring of odd years.
370. Literature and Film (3).

An examination of literature and film media based on the study of selected works.
Notes: Lab Fee: $\$ 10$. Offered in the fall of even years.

## 380. Literature of Science (3).

Selected readings from the literature of science with
attention to language and style.
Notes: Offered in the spring of even years.
431, 432, 433. Academic Internship in English (1) (2) (3). Practical experience in selected activities relating to skills gained in the major.
Prerequisite(s): 12 hours of ENGL (including English 300) and/or WRIT courses beyond WRIT 102 and a 2.5 GPA and permission of the Department Chair.
Notes: Open to majors only. Offered in fall and spring.

## 450. Honors: Selected Topics in English (3).

Required for departmental honors, this course may be taken after the student completes 18 hours in English. Prerequisite(s): Approval of Department Chair and/or instructor and 18 hours of English.
Notes: Offered in fall and spring.
471, 472. Undergraduate Research in English (1) (2). Students participate in scholarly research with a faculty member. Requires approval of Department Chair. Notes: Offered in fall and spring.

## 491. Departmental Seminar (0).

Intended to assess the student's mastery of English coursework.
Prerequisite(s): Must be taken in the first semester of the senior year (after the student has earned 90 hours). Notes: A grade of $S$ or $U$ is recorded. Offered in fall and spring.

## 492. Department Seminar Science Communication (0).

 Intended to assess the student's mastery of coursework in the Science Communication program. Based on class work and internship experiences, students will identify strengths and weaknesses in the Science Communication curriculum.Prerequisite(s): Must be taken after the student has completed WRIT 461 and 462.
Notes: A grade of $S$ or $U$ is recorded. Offered in fall and spring.

## 501. Modern British Poetry (3).

Study of the chief British poets from Yeats, Pound, and Eliot to the present.
Prerequisite(s): One of the following: ENGL 202, 203, or graduate status.
Notes: Offered every odd year in the fall.
502. Studies in Non-Western Literature (3).

This course will focus on the major writers of the NonWestern World (Chinese, Japanese, Indian, Arabic,
Islamic, and African).
Notes: Offered every odd year in the fall.

## 503. Major Victorian Writers (3).

Study of 19th-century British literature (poetry, non-fiction prose, and fiction) with emphasis on main currents of thought.
Prerequisite(s): One of the following: ENGL 202, 203, or graduate status.
Notes: Offered every odd year in the spring.
504. Modern American Poetry (3).

A survey of American poetry of the 20th century with emphasis on major poets such as Pound, Frost, Stevens, Williams, Bishop, Brooks, Rich, and Levertov.
Prerequisite(s): ENGL 210, 211, or graduate status.
Notes: Offered every even year in the spring.

## 507. The History and Development of Modern English

 (3).An introduction to language acquisition and phonology, morphology, and syntax of Old, Middle, and Modern English, with an emphasis on the major causes and patterns of language change.
Prerequisite(s): 1 semester hour of a foreign language.
Notes: Offered in fall.
510. Topics in Literature, Language, and Rhetoric (3). An examination of topics, issues and methodologies. Course content will vary.
Notes: May be retaken for additional credit with permission of Chair, Department of English.
511. Chaucer (3).

Reading in Middle English of The Canterbury Tales and Troilus and Criseyde.
Prerequisite(s): One of the following: ENGL 201, 203, or graduate status.
Notes: Offered every even year in the spring.
512. Middle English Literature (excluding Chaucer) (3). Survey of Middle English literature, exclusive of Chaucer, with emphasis on major genres and authors. Texts are taught predominately in Middle English.
Prerequisite(s): One of the following: ENGL 201, 203, or graduate status.
Notes: Offered every odd year in spring.
513. Milton (3).

Milton's poetry and representative prose, his life and the background of the 17th century.
Prerequisite(s): One of the following: ENGL 201, 203, or graduate status.

Notes: Offered every even year in fall.
514. Elizabethan Literature (3).

A reading of poetry, prose narratives, drama, and critical theory of the English Renaissance. Shakespeare's poetry is included, but not his plays.
Prerequisite(s): One of the following: ENGL 201, 203, or graduate status.
Notes: Offered every even year in spring.
515. 20th-Century Southern Literature (3).

Study of major fiction, poetry, drama, and prose writers from the Nashville Fugitives to James Dickey.
Prerequisite(s): One of the following: ENGL 210, 211, or graduate status.
Notes: Offered every even year in fall.
520. 17th-Century English Literature (exclusive of Milton) (3).
Study of Cavalier and Metaphysical poets, important single figures (Donne, Marvell), and outstanding prose stylists.
Prerequisite(s): One of the following: ENGL 201, 203, or graduate status.
Notes: Offered every odd year in fall.
521. Restoration and 18th-Century English Literature (3). A study of selected major works (excluding the novel) with some attention to dramatic comedy, satire, periodical essay, poetry, and biography.
Prerequisite(s): One of the following: ENGL 201, 203, or graduate status.
Notes: Offered every odd year in spring.

## 525. Studies in Irish Literature (3).

Study of Yeats, Joyce, and other Irish writers from the viewpoint of history, folklore, and mythology.
Prerequisite(s): One of the following: ENGL 201, 202, 203, or graduate status.
Notes: Offered in the fall of even years.
527. English Romantic Poetry and Prose (3).

Study of the major works of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.
Prerequisite(s): One of the following: ENGL 202, 203, or graduate standing.
Notes: Offered in the fall of even years.
529. 20th-Century American Fiction and Drama (3).

Examination of representative fiction and drama with emphasis on writers such as Hemingway, Faulkner,
Updike, O'Neill, Bellow, Warren, Heller, Ellison, and Irving.
Prerequisite(s): One of the following: ENGL 210, 211, or graduate standing.
Notes: Offered in the spring of odd years.

## English Education (ENGE)

391. Principles of Teaching English in Middle and Secondary Schools (3).
Study \& application of skills of planning, instruction,

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management, and assessment of students in English. Includes a review of the ethical and legal responsibilities of English teachers.
Prerequisite(s): Admission to Teacher Education Program. Notes: Offered in fall.
392. Field Experience in Teaching English (1:0:8).

Students will spend a minimum of 8 hours per week in the classroom under the supervision of an English education professor and will work with a mentor teacher, in preparation for the final internship experience.
Prerequisite(s): Admission to Teacher Education Program. Corequisite(s): ENGE 391, EDUC 390.
Notes: A grade of S or U will be recorded. Offered in fall.
519. Adolescent Literature (3).

Study of literature appropriate for students preparing to teach at the secondary level with emphasis on literature written for adolescents.
Prerequisite(s): WRIT 101 and 102; minimum of sophomore status.
Notes: Offered in the spring.

## 591. Principles of Teaching English in Middle and

 Secondary Schools (3).This course addresses specific instructional needs and techniques related to the teaching of English and is designed for students in the MAT program.
Prerequisite(s): Admission to Teacher Education Program.
592. Field Experience In Teaching English (1:0:8).

Students will spend 8 hours in the classroom under the supervision of an English Education Professor and will work with a mentor teacher, in preparation for the final internship experience.
Prerequisite(s): Admission To Teacher Education Program at Graduate Level.
Corequisite(s): ENGE 591.
Notes: A grade of S or U is recorded.

## Entrepreneurship (ENTR)

All ENTR courses have a prerequisite of junior status, an overall GPA of at least 2.0, and a grade of C or better in CRTW 201 or WRIT 102.

## 373. Introduction to Entrepreneurship (3).

Through a hands-on laboratory experience, this course investigates the resources available for developing a feasibility study to be used in the formation of a new business venture.

## 374. Strategic Entrepreneurial Growth (3)

In this course, students analyze the changes necessary in strategic focus, culture, and management style as an entrepreneurial enterprise grows over time. The course covers family-owned businesses, succession planning, intrapreneurship, franchising, and negotiations of deal structures. It is beneficial for students interested in understanding business growth and also those considering employment in small firms.
Prerequisite(s): ENTR 373.

## ENTREPRENEURSHIP/ENVIRONMENTAL SCIENCES-STUDIES/FAMILY \& CONSUMER SCIENCES

473. Entrepreneurial Finance (3).

The focus of this course is on entrepreneurial financing including the raising and managing of venture capital.
Risk management, financial planning and forecasting are tools to develop proforma statements.
Prerequisite(s): ENTR 373 and ACCT 280.

## 579. Business Plan Development (3)

This is the capstone course in entrepreneurship. Students will write a comprehensive business plan for a viable venture. At the end of the semester, the business plan will be presented to a panel of judges that include entrepreneurs and business professionals.
Prerequisite(s): ENTR 373 and 374 or 473, or graduate status.

## Environmental Sciences/Studies (ENVS)

## 101. Introduction to Environmental Issues (3).

Case studies are used to explore the complexity of a set of environmental issues from multiple perspectives.
Notes: Offered in fall and spring.
461. Internship in Environmental Studies (1:0:0). An opportunity for students to earn academic credit for experience gained through apprenticeship work under the supervision of a trained environmental professional. Prerequisite(s): Overall GPA of 2.0, 2.0 GPA in major courses, and permission of program chair.
Notes: Offered in the fall, spring, and summer.
462. Internship in Environmental Studies (2:0:0). An opportunity for students to earn academic credit for experience gained through apprenticeship work under the supervision of a trained environmental professional. Prerequisite(s): Overall GPA of 2.0, 2.0 GPA in major courses, and permission of program chair
463. Internship in Environmental Studies (3:0:0). An opportunity for students to earn academic credit for experience gained through apprenticeship work under the supervision of a trained environmental professional. Prerequisite(s): Overall GPA of 2.0, 2.0 GPA in major courses, and permission of program chair.
495. Independent Research in the Environment I (3). Students participate in scholarly research with a faculty member.
Prerequisite(s): ENVS 101, Environmental Studies/ Sciences major with at least Junior standing.
Notes: Offered in fall and spring.
496. Independent Research in the Environment II (3). Students participate in continued scholarly research with a faculty member.
Prerequisite(s): ENVS 101, ENVS 495, Environmental
Studies/Sciences major with at least Junior standing.
Notes: Offered in fall and spring.
510. Special Topics in the Environment (3).

A detailed examination of specific subjects in environmental issues, as chosen by the instructor.

Prerequisite(s): Permission of instructor.
Notes: Offered as needed. May be retaken for additional credit.
520. Senior Seminar in the Environment (3).

Student groups will explore diverse approaches to a selected environmental issue.
Prerequisite(s): ENVS 101, Environmental Studies/
Sciences major with Senior standing.
Notes: Intensive Writing Course. Offered in spring.

## Family and Consumer Sciences (FACS)

211. Garment Design and Structure I (3:1:4).

Fundamental fitting and construction techniques in relation to design quality and structure compatibility. Notes: Lab Fee: $\$ 20$. Offered in spring.
231. Children and Families (2).

Introduction to development of children and families. Notes: Offered in fall.
340. Cooperative Internship Experience (3).

A cooperative internship experience providing training in a professional environment. A maximum of 6 hours of credit may be applied toward any baccalaureate degree in the College of Education.
Notes: A grade of S or U is recorded. Offered in fall, spring, and summer.

## 381. Intermediate Textiles (3:1:4).

Study of the physical and chemical properties of fibers used for apparel, interior furnishings and industrial products. Origin, manufacture and merchandising of textiles are studied from a global perspective.
Notes: Lab Fee: $\$ 10$. Offered in fall.

## 401. Consumer Economics and Resource Management

 (3).Consumer Economics and Resource Management focuses on the global nature of our economy and the types of decisions needed to become a rational and discerning consumer.
Notes: Offered in spring.

## 450. Honors: Selected Topics in Vocational Education

 (3).Preparation and execution of an honors project.
Prerequisite(s): 16 semester hours in NUTR, VCED course and consent of faculty advisor.
Notes: A grade of S or U is recorded. Not offered this academic year.
491. Cooperative-Internship Experience (3).

A cooperative-internship experience providing training in a professional environment. A maximum of 3 hours of cooperative-internship experience credit may be applied toward any Bachelor of Science degree in the College of Education.
Notes: A grade of $S$ or $U$ is recorded. Offered in fall and spring.

All courses in the College of Education numbered above 499
have a prerequisite of junior status or permission of the dean of the College of Education.
500. Contemporary Issues: The Professional and Family Living (3).
Focus on synthesizing knowledge related to the dynamics and improvements of family life.
Notes: Offered in spring.

## 501. Residential Technology (3).

This course examines the many technological changes that have affected the family residence. Sound and visual equipment, computers, home office, and innovative household equipment will be studied.
Prerequisite(s): VCED 401.
Notes: Lab Fee: $\$ 25$. Offered in spring.
551 thru 569. Special Topics: Vocational Education (1) (2) (3).

Application of research to current problems in teaching. Notes: Not offered this academic year. May be retaken for additional credit.

## Finance (FINC)

## 101. Personal Finance (3).

A very practical course that emphasizes the development of a personal financial plan to achieve goals and objectives.

All Finance courses numbered above 299 have a prerequisite of junior status, an overall GPA of at least 2.0 and a $C$ or better
in CRTW 201 or WRIT 102.

## 311. Principles of Finance (3).

A survey course examining the fundamentals of financial decision making such as financial ratios, budgets, time value of money, loan determination, bond and stock pricing and capital budgeting.
Prerequisite(s): ACCT 280 and ACCT 281 or ACCT 601.
312. Intermediate Corporate Financial Management (3). A case, lecture and computer application course. The emphasis in the course will be on the financial statements analysis, cash budgets, Performa statements, time value of money, and working capital management.
Prerequisite(s): A C or better in FINC 311.
315. Principles of Financial Planning (3:3:0).

This course provides the students with an overview of the personal financial planning process. It is the first course in a sequence of courses designed to qualify the student to take the Certified Financial Planner (CFP) exam.
Prerequisite(s): FINC 311.

## 410. Sport Budgeting and Finance (3).

The use of revenue generating techniques will be applied to sports related organizations. Budgets and financial planning practices will be employed to manage sports businesses.
Prerequisite(s): ACCT 280.

FAMILY \& CONSUMER SCIENCES/FINANCE/FRENCH 491. Internship in Finance (3).

The internship in finance provides opportunities for students to integrate course work into practical work settings. This course applies the academic and conceptual to the practical; students supervised by faculty, will work a minimum of 150 hours during a semester or summer term.
Prerequisite(s): 2.5 GPA and must have completed FINC 312 and an additional Finance option course. For Business Majors only.
Notes: Will not satisfy the HCMT internship requirement. A grade of S or U is recorded.
498. Advanced Corporate Financial Management (3). A case, lecture and computer application course. The emphasis in the course will be on the analysis of capital investment, long term financing, and risk/return analysis. The final examination will be an assessment test of Financial competencies.
Prerequisite(s): A C or better in FINC 312.
512. Financial Investments Management (3).

A practical investment course that focuses on portfolio management through the use of an investment simulation. Prerequisite(s): A C or better in FINC 312, or in FINC 655.
513. Banking and Financial Service Management (3).

The application of financial management techniques is employed to the economic and regulatory environment of banks and financial service companies.
Prerequisite(s): A C or better in FINC 312, or in FINC 655.

## 514. International Financial Management (3).

The course examines factors that affect a company's financial management decisions in a global environment. Managerial finance in the multinational firm receives special attention.
Prerequisite(s): Grade of C or better in FINC311.
515. Insurance and Risk Management (3:3:0).

This course will explore the principles of insurance. It will include an analysis of risk and strategies to eliminate, minimize or transfer risk. Students will become familiar with the key components of life, accident and health insurance policies as well as property and casualty insurance.
Prerequisite(s): FINC 311, or FINC 655.
516. Employee Benefits and Retirement Planning (3:3:0). Students will learn the various group insurance and retirement programs offered by employers. Students will also become familiar with employee stock option plans and retirement needs analysis. Strategies to meet one's retirement goals and objectives will be covered.
Prerequisite(s): FINC 311, or FINC 655.

## French (FREN)

Native speakers of a foreign language will not receive CLEP credit for the 101, 102, 201, or 202 courses in their native language, nor will they be permitted to enroll in 101, 102, 201, or 202 courses in that language. Students who are fluent in a

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language other than their native language or English may receive CLEP credit in that language, but may not enroll in 101, 102, 201 or 202 courses in the second language in which they are fluent.

From time to time an additional course dealing with a special topic in French may be offered if sufficient student interest is indicated and a faculty member is available to teach the course. Consult the department chairperson about such a course.
101. Elementary French (4:3:1).

Notes: Lab Fee: $\$ 25$. Offered in fall, spring and summer.

## 102. Elementary French (4:3:1).

Prerequisite(s): Students who elect to take a 101 language course must receive at least a C (or S ) in that language course before continuing on to 102 of that language.
Notes: Lab Fee: $\$ 25$. Offered in fall, spring and summer.

## 201. Intermediate French (3:3:1).

Students who have completed at least two years of French in high school with a grade of A or B are encouraged to enroll in FREN 201.
Prerequisite(s): FREN 102.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.
202. Intermediate French Conversation (3:3:1).

Prerequisite(s): FREN 102.
Notes: Lab Fee: $\$ 20$. Offered in the fall and spring.
205. Black Literature of French Expression (1).

Prerequisite(s): FREN 102.
Notes: Offered on demand.
208. French Canadian Short Stories (1).

Prerequisite(s): FREN 102.
Notes: Offered on demand.
210. Special Topics in Language and Culture (3).

Intermediate special topics course whose subject will vary. Among the topics will be French for business, the medical profession, etc.
Prerequisite(s): Completion of FREN 201.
Notes: Offered at variable times. May be taken for additional credit with permission of Department Chair.

## 250. Introduction to French Literature (3).

This course introduces students to literary texts of diverse genres and periods by French and Francophone authors. Special attention is given to problems of reading. The course also emphasizes building vocabulary necessary to read and discuss literary texts in French.
Prerequisite(s): FREN 201.
Notes: Offered variable times.
280. The French Film (3).

Introduction to significant examples of foreign language cinema as an art form and as embodiments of the culture of French-speaking countries.
Prerequisite(s): 6 hours of 200-level French.
Notes: Offered variable times.
301. French Civilization and Culture (3). Prerequisite(s): 6 hours of 200-level FREN. Notes: Offered variable times.
310. Advanced Grammar and Composition (4). Prerequisite(s): 6 hours of 200-level FREN. Notes: Offered on demand.

## 313. Advanced French Conversation (3).

This course includes in-depth use of language and requires the use of the internet and advanced readings. Prerequisite(s): 6 hours of 200-level FREN.
Notes: Lab Fee: \$20. Offered variable times.
340 A, B, C. Cooperative Education Experience (1) (2) (3). Cooperative education experience providing on-the-job training in a professional field related to a student's major or career interests.
Notes: Courses may be repeated for credit; however, a maximum of 3 hours may be applied toward a degree in Modern Languages (French). A grade of $S$ or $U$ is recorded. For French majors only. Offered fall, spring and summer.
351. Phonetics (3).

Prerequisite(s): 6 hours of 200-level FREN.
Notes: Lab Fee: \$20. Offered variable times.

## 401. Survey of Francophone Literature (4).

A survey of the Literature of Francophone countries. Prerequisite(s): At least 6 hours of $200-\mathrm{level}$ FREN, including FREN 250.
Notes: Offered variable times.

## 499. Competency Exam (0).

Students must enroll for this exam after completion of 18 hours above 102, no later than the second semester of the junior year, and before enrollment in any 500 -level course. Notes: A grade of $S$ or $U$ is recorded. Offered in fall and spring.

Prerequisite for all 500-level French courses: completion of 18 semester hours of French or equivalent or permission of the Department Chair.

## 510. Topics in Language and Literature (3).

The thrust of the course will vary, depending on student interest and faculty expertise.
Notes: May be retaken for additional credit with permission of Department Chair.
513. Drama of the 17th-Century: Corneille, Racine and Moliere (3).
Notes: Offered variable times.
517. 18th-Century Literature (3).

Study of the major literary works of the French Enlightenment with some attention to historical, political and social, musical and artistic parallels.
Prerequisite(s): FREN 401 and 402.
Notes: Offered variable times.

## 523. Modern Novel (3).

A survey of major themes and developments in the modern French novel.
Prerequisite(s): FREN 401 and 402.
Notes: Offered variable times.
550. Medieval French Literature (3).

A study of the literary traditions of medieval France through an examination of works representing the major genres, writers and themes of the period.
Prerequisite(s): 18 hours of French or equivalent.
Notes: Offered variable times.
560. Writers of the French Renaissance (3).

An introduction to the major writers of the 16th-century
whose texts forged new parameters in French literary expression.
Prerequisite(s): 18 hours of French or equivalent.
Notes: Offered variable times.
575. French Literature in Translation (3).

Readings and discussions of major works of French literature in English translation. A knowledge of French is not required. Course content can vary depending on the instructor.
Prerequisite(s): Open to advanced undergraduates and graduate students.
Notes: Offered variable times. Undergraduate French majors cannot use FREN 575 towards the BA.
590. Contemporary France (3).

A survey of cultural, historical and intellectual development from the end of World War II to the present.
Prerequisite(s): 18 hours of French courses or permission of instructor.
Notes: Offered variable times.
593. Advanced Oral and Written Communication (3). A course designed primarily for students who are able to understand, speak and write French but who wish to improve and strengthen these skills while moving toward more natural expression of modern French.
Prerequisite(s): 18 semester hours of French or permission of chair.

## General Education (GNED)

102. The Human Experience: Who Am I? (3).

Students will find academic engagement and intellectual challenge through their own written and oral responses to mature interdisciplinary readings-readings that explore the "self" in four thought-provoking contexts. Students must earn a grade of $C$ or better in the course. Prerequisite(s): WRIT 101 with a grade of C or better.

## Geography (GEOG)

101. Human Geography (3).

Human adjustment to the physical environment. The geographic factors in the distribution of population and the growth of civilization.

Notes: Offered in fall, spring and summer.

## 103. Geography of the Third World (3).

Examines characteristics of Third World nations and then surveys the nations of Latin America, Africa, and Asia. It is recommended that students take 103 or 104 but not both.
Notes: Offered in fall.
104. Geography of Industrial Nations (3).

Surveys the physical, economic, and cultural characteristics of industrial nations with emphasis on linkages within the world system.
Notes: Offered in spring.
Prerequisite for all 300 level courses in Geography: Sophomore status or permission of the instructor.
301. The Geography of North America (3).

A regional study of Anglo-America with consideration of the relationships between the natural environments and social, political, and economic developments.
Prerequisite(s): Sophomore status or permission of the instructor.
Notes: Offered in fall.
302. Economic Geography (3).

Provides an introduction to elementary locational theory, analyzing the spatial structures of primary, secondary, and tertiary economic activities, and also explores major linkages in the global economy.
Prerequisite(s): Sophomore status or permission of the instructor.
Notes: Offered at variable times.
303. Geography of Africa (3).

Geography of Africa presents Africa's physical environment, its socio-cultural diversity, its colonial heritage, and its economic development.
Prerequisite(s): GEOG 101 or GEOG 103. Sophomore status or permission of the instructor.
Notes: Crosslisted with AAMS 303.
304. Geography of the Middle East (3).

This course surveys Southwest Asia and North Africa, a region commonly known as the Middle East and usually associated with arid climates, oil, Islam and Judaism. Prerequisite(s): GEOG 101 or GEOG 103.

## 305. Introduction to Geographic Information Systems

 (3).Course discusses solving problems with spatial analysis by using geographic information systems, a powerful technology that combine layers of data in a computerized environment, creating and analyzing maps in which patterns and processes are superimposed.
Prerequisite(s): GEOG 101 or GEOG 103 or GEOG 104 or permission of the instructor.
Notes: Lab Fee: $\$ 50$. Offered at variable times.
306. Geography of Latin America and the Carribbean (3). This course surveys the geographic and historic factors, which contributed to the present-day complexity of

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Central America, South America, and the Caribbean. Prerequisite(s): GEOG 101 or GEOG 103. Sophomore status or permission of the instructor.
Notes: Offered in summer.
310. Geography of the Carolinas (3).

The changing cultural and economic utilization of the two-Carolinas' environment. Historical and problem oriented. Field trip.
Prerequisite(s): Sophomore status or permission of the instructor.
Notes: Lab Fee: $\$ 15$. Offered in the spring.
325. Traveling Seminar in Geography (3).

Problem-oriented short course which visits selected locations in Africa, North America, Mexico, or the West Indies.
Prerequisite(s): Sophomore status or permission of the instructor.
Notes: Offered variable times.
350. Special Topics in Geography (3).

A course, either systematic or regional in approach, that deals in-depth with a subject in geography not included in the established curriculum.
Prerequisite(s): Sophomore status or permission of the instructor.
Notes: Offered variable times.

## 500. Global Environment and Sustainable Development

 (3).This course discusses the question of sustainability, a new economic agenda of development that seeks a balance with issues of environmental protection and social equity so that the short-term needs of our generation do not compromise those of the future.
Prerequisite(s): GEOG 101. Offered in the spring.
525. Traveling Graduate Seminar in Geography (3). Problem-orientated short course, which visits selected locations in Africa, North America, Mexico or the West Indies. Offered concurrently with GEOG 325.
Prerequisite(s): 6 hours of geography or permission of instructor.
Notes: Offered variable times.

## Geology (GEOL)

## 101. Earth's Dynamic Surface (3:2:2).

An introduction to rocks and minerals and processes which affect the surface of the earth.
Notes: Lab Fee: $\$ 40$. A student may not receive credit for more than one of the following: GEOL 101; 110. Offered in fall and spring.

## 110. Physical Geology (3).

An introduction to the major geologic processes which shape the earth.
Corequisite(s): GEOL 113.
Notes: Offered in fall, spring and summer.
113. Physical Geology Laboratory (1:0:2).

Laboratory studies of minerals, rocks, age dating, topographic and geologic maps, groundwater, streams, mass wasting, volcanism, earthquakes, and Plate Tectonics.
Corequisite(s): GEOL 110.
Notes: Lab Fee: $\$ 40$. Offered in fall and spring.

## 201. Natural Disasters (4:3:2).

A survey of earthquakes, volcanoes, and other catastrophic natural disasters with emphasis on causes, effects, and human adjustments.
Notes: Offered in the fall and spring.
210. Historical Geology (3).

A study of the origin and evolution of the earth's crust, its major features and its occupants.
Notes: Offered in fall.
211. Historical Geology Laboratory (1:0:3).

This course offers opportunities to develop skills in many of the scientific methods used to discern and interpret earth's geological history and to study models of earth's evolution.
Prerequisite(s): GEOL 210 prerequisite or corequisite. Notes: Lab Fee: $\$ 40$. Offered in the fall.
220. Oceanography (3).

An examination of the major features of the ocean and the chemical and geologic processes responsible for them.
Notes: Offered in spring.
250. Earth and Space Systems (3).

A survey of fundamental laws, principles and concepts of geology, meteorology, oceanography and astronomy. Restricted to ECED, ELED and SPED majors. Students may not receive credit for GEOL 250 and 101 or 102 or 110/113.
Prerequisite(s): PHYS 250/251.
Corequisite(s): GEOL 251.
Notes: Offered in fall and spring.
251. Earth and Space Systems Laboratory (1:0:3).

A laboratory to accompany GEOL 250.
Prerequisite(s): PHYS 250/251.
Corequisite(s): GEOL 250.
Notes: Lab Fee: $\$ 40$. Restricted to ECED, ELED and SPED
majors. Offered in fall and spring.

## 305. Introduction to Geographic Information Systems

 (3:3:0).Course discusses solving problems with spatial analysis by using geographic information systems, a powerful technology that combines layers of data in a computerized environment, creating and analyzing maps in which patterns and processes are superimposed.
Prerequisite(s): GEOG 101, GEOG 103, GEOG 104, or consent of the instructor.
320. Marine Geology (3).

An examination of the geologic features and uses of the ocean floor. Emphasis on the methods used by marine geologists.
Prerequisite(s): GEOL 110 or 210.

Notes: Offered as needed.
330. Southeastern Regional Geology (3:2:2).

A study of the major geologic provinces and features of the southeastern United States with emphasis on their origin and history.
Prerequisite(s): GEOL 101, GEOL 110, GEOL 210 or
permission of instructor.
Notes: Lab Fee: $\$ 80$. Offered as needed.
335. Fundamentals of Geochemistry (3).

Investigation of reactions controlling the geochemistry of the earth's crust.
Prerequisite(s): CHEM 106.
340. Hydrogeology (3).

An environmentally based overview of the basic principles controlling the hydrologic cycle and the occurrence and movement of groundwater in a variety of geologic settings.
Prerequisite(s): CHEM 106 and GEOL 101 or GEOL 110. Notes: Lab Fee: $\$ 40$. Offered in spring.

351, 352, 353. Independent Study in Geology (2) (2) (2). Directed study of diverse geological topics which extends individual opportunities beyond curriculum limits.
Prerequisite(s): Permission of the Department Chair and 6 hours of geology.
Notes: Offered in fall, spring and summer.

## 360. History of Life (3).

A survey of 3 billion years of life on Earth, with a focus on how biological, geological, and astronomical processes shaped living systems through time.
Prerequisite(s): Any geology or biology class, or permission of instructor.

## German (GERM)

Native speakers of a foreign language will not receive CLEP credit for the 101, 102, 201, or 202 courses in their native language, nor will they be permitted to enroll in 101, 102, 201, or 202 courses in that language. Students who are fluent in a language other than their native language or English may receive CLEP credit in that language, but may not enroll in 101, 102, 201 or 202 courses in the second language in which they are fluent.

## 101. Elementary German (4:3:1).

Notes: Lab Fee: $\$ 25$. Offered in fall.
102. Elementary German (4:3:1).

Prerequisite(s): Students who elect to take a 101 language course must receive at least a $C$ (or $S$ ) in that language course before continuing on to 102 of that language. Notes: Lab Fee: $\$ 25$. Offered in spring.
201. Intermediate German (3:3:1). Prerequisite(s): GERM 102.
Notes: Lab Fee: \$20. Students who have completed at least two years of German in high school with a grade of A or B are encouraged to enroll in GERM 201. Offered in
the fall.
202. Intermediate German Conversation (3:3:1).

Prerequisite(s): GERM 102.
Notes: Lab Fee: \$20. Offered in spring.
210. Special Topics in Language and Culture (3).

Intermediate special topics course whose subject will vary.
Among the topics will be German for business, the medical profession, etc.
Prerequisite(s): Completion of GERM 201.
Notes: Offered variable times. May be retaken for additional credit with permission of Department Chair.
250. Introduction to German Literature (3).

A prerequisite to the 401-402 sequence; introduces
German majors to literary terminology, genres, and
problems of reading/translation while systematically reviewing and refining language skills as encountered in the literature.
Prerequisite(s): GERM 201.
Notes: Offered variable times.
280. The German Film (3).

Introduction to significant examples of foreign language cinema as an art form and as embodiments of the culture of German speaking countries.
Prerequisite(s): 6 hours of Intermediate German.
Notes: Offered variable times.
300. German for Business (3).

Introduction to German language and culture with emphasis on the business environment.
Notes: Knowledge of German not required. Offered variable times.
301. German Civilization and Culture (3). Traces the cultural development of Germany with emphasis on the study of music, art, architecture, literature, ideas, and "daily life" in their historical context.
Prerequisite(s): 6 hours of 200-level German.
Notes: Offered variable times.
310. Advanced Grammar and Composition (4). Prerequisite(s): 6 hours of 200 level courses. Notes: Offered variable times.
313. German Conversation (3).

Conversation.
Prerequisite(s): 6 hours of 200-level German.
Notes: Lab Fee: $\$ 20$. Offered variable times.
401. Survey of German Literature (4).

A survey of the literature of Germany.
Prerequisite(s): 6 hours of 200-level German, including German 250.
Notes: Offered variable times.
450. Honors: Selected Topics in German (3).

This course enables a qualified student of German to earn honors status by engaging in sustained research on a focused topic approved by an advisor. The research will be shared in the form of an honors thesis.

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Prerequisite(s): Permission of Chair or instructor and 18 semester hours in German.
Notes: Offered in fall and spring.
499. Competency Exam (0).

Prerequisite(s): 18 hours above 102.
Notes: A grade of S or U recorded. Students must enroll for this exam after completion of 18 hours above 102, no later than the second semester of the junior year, and before enrollment in any 500 level course. Offered in fall and spring.

Prerequisite for all 500 level German courses: completion of 18 semester hours of German including German 499 or equivalent or permission of the Department Chair.
506. German Critical Thought and Thinkers (3).

Will introduce the student to the richness of critical thought found in the intellectual heritage of German speaking countries.
Notes: Offered variable times.

## 510. Special Topics in German Language and Literature

 (3).Advanced seminar offers the faculty and students an opportunity to intensively investigate a single author, movement or genre in Austrian, German and Swiss literature.
Notes: Offered variable times. May be taken for additional credit with permission of Department Chair.
520. Interrelation of German Music and Literature (3). Examines the important interrelation between word and music in Germany and Austria in the 18th-, 19th- and 20th-centuries.
Notes: Offered variable times.
575. German Literature in Translation (3).

Readings and discussions of major works of German literature in English translation. A knowledge of German is not required. Course content can vary depending on the instructor.
Prerequisite(s): Open to advanced undergraduates and graduate students.
Notes: Offered variable times.
580. Techniques of Translation and Interpretation (3). Will introduce the advanced German students to techniques and stylistics of translation and interpretation, essential skills necessary both for scholarship and for employment options with international agencies.
Notes: Offered variable times.

## Gerontology (GRNT)

## 300. Introduction to Gerontology (3).

An integrated overview of the dominant forces affecting aging in human society. These include biological and health factors, psychological and social factors, economic and legal factors, cultural and political factors.
Notes: Offered variable times in fall.
301. Biology of Aging (3).

Study of the biological changes that accompany aging. The course examines the biological process of aging at a variety of levels ranging from molecular-cellular changes up to the physiology of whole organ systems.
Prerequisite(s): WRIT 102 and at least junior standing. Notes: Offered in fall of even numbered years and in Maymester. Crosslisted with SCIE 301.
304. Death and Grief as Social Processes (3). Analysis of these experiences as related to society's network of cultural values and organizational structures. Prerequisite(s): SOCL 101 or SOCL 201 or permission of instructor.
Notes: Offered in fall and summer. Crosslisted with SOCL 304.
305. Human Behavior in the Social Environment (3:3:0). Study of social systems approach to understanding human behavior and development throughout the lifespan using a biophysical, psychological, and social multidimensional framework for assessing social function. Notes: Crosslisted with SCWK 305.
Prerequisite(s): PSYC 101. SCWK 200, ANTH 201, SOCL 201 and SCIE/GRNT 301 (May be taken concurrently) or permission of instructor.
307. Development II: Adulthood (3).

Development of human beings from adolescence to death. Prerequisite(s): PSYC 101.
Notes: Crosslisted with PSYC 307.
440. Internship in Gerontology (3).

Special agency placement course.
Prerequisite(s): Minoring in Gerontology or pursuing Gerontology certificate (minimum 80-hour placement), approval from coordinator of the program and GRNT 300. Notes: Offered in fall, spring and summer. A grade of S or U is recorded.
504. Sociology of Aging (3).

Analysis of the major social forces which affect aging and the ways modern society responds in planning for its elderly.
Notes: Cross-listed as SOCL 504. Offered in fall and summer.

## Health (HLTH)

234. Strategies for Teaching Health for the K-12 Physical Educator (3:3:10).
This course is designed to provide future physical educators strategies for teaching health and to provide an opportunity for application in the classroom setting.
Prerequisite(s): HLTH 300.
Notes: Offered in fall.
235. Personal and Community Health (3).

A study of health issues and problems as they relate to the individual.
Notes: Offered in fall and spring.
303. Methods of Teaching Health Education in Elementary School (2).
A methods course of study in Comprehensive School Health with emphasis on teaching strategies which develop elementary school childrens' ability to make intelligent, sound, personal, and community health decisions.
Prerequisite(s): Admission to Teacher Education Program. Notes: Offered in fall and spring.

All courses in the College of Education numbered above 499
have a prerequisite of junior status or permission of the dean of the College of Education.
500. Contemporary Health Problems (3).

A practical experience in the study of current health issues.
Prerequisite(s): HLTH 300 or equivalent.
Notes: Offered every other fall. Junior status.
501. Substance Abuse Education (3).

A study of substance abuse and an overview of current methods of treatment, education and prevention.
Prerequisite(s): PSYC 101 or SOCL 201 or HLTH 300 or permission of instructor.
Notes: Offered in spring. Junior status.
503. School Health and Health Education (3).

A methods course for secondary health instruction.
Prerequisite(s): HLTH 300 or permission of instructor.
Notes: Junior status.
506. Human Sexuality (3).

A study of the problems, questions and issues of human sexuality as they relate to personal health and well-being.
Notes: Offered in the fall and spring. Junior status.

## 507. Women's Health Issues (3).

A study of the problems, questions and issues of women's health as they relate to personal and community health and well-being.
Notes: Offered every odd fall. Junior status.

## Health Care Management (HCMT)

200. Introduction to Health Care Management (3). Overview of health care organizations and channels of distribution emphasizing reimbursement and the role of third party payers. International health and U. S. health care trends reviewed.

All HCMT courses above 299 have a prerequisite of junior status, an overall GPA of at least 2.0 and a C or better in CRTW 201 or WRIT 102.

## 300. The Health Care Manager (3).

HLSM 300 will investigate the evolving management structures of health care and health related organizations. Prerequisite(s): HCMT 200 or permission of instructor.
302. Health Care Planning and Marketing (3).

Current status of changes in healthcare planning and

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marketing. Investigates the competitive healthcare market, the role of the physician, economic changes, the delivery of healthcare services, and physician relation strategies.
Prerequisite(s): HCMT 200.

## 303. Health Care Organizations and the Legal Environ-

 ment (3).Legal environment and considerations in health services organizations. Emphasis on contracts, torts, legal process, technological and ethical considerations. Special considerations for the health services manager. Case studies. Prerequisite(s): HCMT 200.

## 491. Health Care Internship (3).

Full-time supervised work experience in a health care setting.
Prerequisite(s): To take HCMT 491 students must have a C or better in all previous HCMT courses.

## 492. Economics and Health Care Finance (3).

Environmental changes affecting healthcare funding channels. Trends and consequences of changing reimbursement. Cost management and internal financial structure, policies and procedures.
Prerequisite(s): HCMT 200, 300, ECON 215 and 216.

## 493. Seminar in Health Care Management (3).

Capstone course designed to integrate all subjects of health administration curriculum. A major paper will be prepared and presented on the topic of health care structure and behavior.
Prerequisite(s): HCMT 200, 300, 302, 303, 491 or permission of the instructor.

## History (HIST)

101. World Civilizations to 1500 (3).

A survey of major civilizations of the world until about 1500.

Notes: Offered in fall and spring.
102. World Civilizations Since 1500 (3).

A survey of major civilizations of the world since about 1500.

Notes: Offered in fall, spring and summer.
211. United States History to 1877 (3).

A survey of political, diplomatic, economic, social, intellectual and ethnic developments through Reconstruction with attention to development of the Federal Constitution.
Notes: Offered in fall, spring and summer.
212. United States History since 1877 (3).

A survey of political, diplomatic, economic, social, intellectual and ethnic developments since Reconstruction with attention to development of the Federal Constitution. Notes: Offered in fall, spring and summer.

Prerequisite for all 300 and 500 level courses in History: Sophomore standing or permission of the Chair, Department of

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History.
308. American Ethnic History (3).

A study of the experiences of Indians, Jews, European immigrants, Afro-Americans, Chinese, Japanese, Mexicans and Puerto Ricans in the United States.
Notes: Crosslisted with AAMS 308. Offered variable times.

## 310. The History of Women in America (3).

Beginning with the colonial period and extending through
the contemporary women's movement, this course will examine the role women have played in the development of American Society.
Notes: Offered variable times.
313. Native American History (3).

Survey of Native American History from ancient American to the present.
Notes: Offered variable times.

## 314. Colonial North America (3).

History of North America from initial contact between European and Indian peoples through the eve of the Revolutionary War. Particular attention will be devoted to examining the changing relationships between European, Indian, and African peoples as well as to the internal evolution of these diverse societies.
Notes: Offered variable times.
315. Civil War and Reconstruction (3).

A history of the coming of the American Civil War, the War itself and the ensuing Reconstruction period.

## 321. Southern Religious History (3).

A social and cultural history of religion in the South from the colonial era until the present day.

## 331. Asian Civilizations: Traditional Asia (3).

A survey of the history and culture of Asia from the earliest times to the fall of the traditional Asian empires about 1700 .
Notes: Offered variable times.
332. Asian Civilizations: Modern Asia (3).

A survey of the history and culture of Asia from the coming of European power about 1500 until the present day.
Notes: Offered variable times.
337. History of Sub-Saharan Africa (3).

Study of the history of Black Africa from the beginnings of tribalism through the modern era.
Notes: Crosslisted with AAMS 337. Offered variable times.

340 A, B, C. Cooperative Education Experience (1) (2) (3). Provides on-the-job training in a professional field related to a student's major or career interests.
Prerequisite(s): Overall GPA 2.5 and minimum of 24 earned undergraduate semester hours. Placement objectives must be approved by Department Chair prior to enrollment.

Notes: For History majors only. Courses may be repeated for credit; however, a maximum of 3 hours may be applied toward a degree in History. A student may not receive credit for both HIST 463 and HIST 340. A grade of S or U is recorded. Offered variable times.
343. European History from the Renaissance through the Age of Reason (3).
A study of political, intellectual and cultural developments from 1400 to 1789.
Notes: Offered variable times.
344. European History from the Age of Reason to the Versailles Settlement (3).
A study of political, social, economic, diplomatic and intellectual developments from 1789 to the end of World War I.
Notes: Offered variable times.

## 345. European History Since 1914 (3).

History of Europe since the beginning of the First World War, including the rise of fascism and communism, the Second World War and the Holocaust, the growth of the welfare state, the Cold War, and the collapse of communism, examined within the context of wide-ranging social and cultural change.
346. History of England to 1603 (3).

A study of the political, social, and economic developments in England from the coming of the Romans to the death of Elizabeth I.
Notes: Offered in fall.
347. History of England from 1603 to the Present (3). A study of the history of modern England, with emphasis on her emergence as a great imperial power, from the accession of James I to the present.
Notes: Offered in spring.

## 350. Special Topics in History (3).

In-depth consideration of a specific topic of particular concern within history. May be offered under various topics.
Notes: May be repeated for credit under different topics. Offered variable times.

## 351. Latin American History (3).

A survey emphasizing Iberian and pre-Columbian civilizations, colonial administration and society, the struggle for independence, and political, economic and social developments as independent nations.
Notes: Offered variable times.

## 352. History of United States-Latin American Relations

 (3).This course offers an introduction to the history of political, economic, and cultural relations between Latin America and the United States from the early nineteenth century to the present. Since the years of independence, the United States and the Latin American countries have engaged in a variety of interactions, ranging from collaboration to open confrontation. This course seeks to expose the patterns of these relations as well as its new features.

355A. Traveling Seminar in History (1).
An introduction, overview, and indepth study of a particular country or region which will accompany a study tour of the same region.
Prerequisite(s): Permission from instructor required.
355B. Traveling Seminar in History (2).
An introduction, overview, and indepth study of a particular country or region which will accompany a study tour of the same region.
Prerequisite(s): Permission from instructor required.
355C. Traveling Seminar in History (3).
An introduction, overview, and indepth study of a particular country or region which will accompany a study tour of the same region.
Prerequisite(s): Permission from instructor required.
450. Selected Topics in History (3).

An independent in depth inquiry into a selected topic in history.
Notes: Requires approval of Department Chairperson.
Offered in fall and spring.
450H. Honors: Selected Topics in History (3).
An independent in depth inquiry into a selected topic in history.
Notes: Requires approval of Department Chairperson. Offered in fall and spring.

## 463. Academic Internships in History (3).

Notes: Open to majors only. Requires approval of Department Chair. A grade of S or U is recorded. Offered in fall, spring and summer.

## 471. Undergraduate Research in History (1).

An opportunity for undergraduate students to engage in intensive research in a historical topic under the guidance of a member of the history faculty.
Notes: Requires approval of Department Chair. Offered in fall, spring and summer

## 472. Undergraduate Research in History (2).

An opportunity for undergraduate students to engage in intensive research in a historical topic under the guidance of a member of the history faculty.
Notes: Requires approval of Department Chairperson. Offered in fall, spring and summe r.
500. Historiography and Methodology (3:2:2).

Intensive study and practice in historical writing and research with an overview of historiography and the nature of the discipline of history.
Prerequisite(s): CRTW 201 and HIST 101, 102, 211 and 212 or permission of instructor.
Notes: Intensive writing and Intensive Oral Communication course. Offered in fall, sp ring and summer.
505. History of South Carolina (3).

A survey of the development of South Carolina, emphasizing political, economic and cultural developments. Notes: Offered variable times.
507. Cultural and Intellectual History of the United States (3).
A study of American thought and culture from the colonial era until the present day.
Notes: Course may be repeated for credit.

## 509. African-American History (3).

A survey of the experiences and contributions of blacks from the African origins to the present.
Notes: Offered variable times.
515. The United States as a World Power since 1898 (3). A survey focusing on the principles of American foreign policy and their historical evolution.
Notes: Offered variable times.
518. A History of the Old South. (3).

A history of the Old South from its founding to the eve of Civil War.
Notes: Offered variable times.

## 521. The New South (3).

A study of Southern institutional development from
Reconstruction to the present.
Notes: Offered variable times.
524. The Emergence of Modern America, 1877-1933 (3).

A study of industrialization, populism, urbanism, Social Darwinism, imperialism, Progressivism, World War I and its aftermath.
Notes: Offered variable times.
525. The United States since 1939 (3).

A study of political, social, economic, and diplomatic developments since 1939 with particular attention to the recent past.
Notes: Offered variable times.

## 527. The American Revolution (3).

Explores the origins, substance, and outcome of the American Revolution from the French and Indian War through the Federalist Era. Particular attention will be devoted to examining the different expectations that different segments of colonial society brought to the Revolution and the extent to which these hopes were realized by the creation of a New Nation.
Notes: Offered variable times.
530. World Environmental History (3).

A comparative examination of world environmental
history.
Notes: Offered in fall and spring.
540. Ancient Greece and Rome (3).

A survey of the history of Greece and Rome from the first Bronze Age civilization on Crete to the barbarian migrations of the 5th-century A.D.
Notes: Offered variable times.
542. Medieval European History (3).

A study of European politics, society and culture from the fall of the Roman Empire to the 15th-century.
Notes: Offered variable times.

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## 547. History of Modern Russia (3).

A survey of Russian history, focusing on events from the development of revolutionary movements in the 19thcentury until the present.
Notes: Offered variable times.
548. History of Modern Germany (3).

History of Germany since the 1850s, including the rise of Bismarck, the unification of Germany, the First World War, Hitler, the Third Reich, the Holocaust, division between East and West in the Cold War, and reunified Germany's present-day dominate role in Europe.

## 550. Special Topics in History (3).

Advanced in-depth consideration of specific topics of particular concern within history.
Notes: May be retaken for additional credit under different topics. Offered variable times.
551. The Middle East since Islam (3).

A survey of the history of the modern Middle East since the rise of Islam.
Notes: Offered variable times.
552. South Asia since 1600 (3).

A survey of modern South Asia (India, Pakistan, Bangladesh, etc.) since 1600.
Notes: Offered variable times.
553. China since 1600 (3).

A survey of the history of modern China since circa 1600 (since the Quing Dynasty).
Notes: Offered variable times.

## 561. The History of the Caribbean (3).

The study of socioeconomic and political trends of the major islands in the Caribbean Sea from the colonial period to the present.
Notes: Crosslisted with AAMS 561. Offered variable times.

## Honors (HONR)

201H-209H. Honors Symposium (1).
Selected topics courses offered fall and spring semesters for honors credit.
Prerequisite(s): Sophomore standing.

## 360H. Summer Study Honors (3).

Sophomores, juniors or seniors may elect summer projects for Honors credit in a field of their interests under the direction of an instructor of their choice. The project may be off campus but must be approved by the instructor and the Honors Director in advance. This project may take the form of a course in reading, in which an examination would be administered in the fall.

450H. Thesis Research (3).
An in depth independent inquiry into a selected topic within the student's major program of study.
Notes: Offered in fall, spring and summer.

451H. Honors Thesis Symposium (1).
This symposium is designed for honors students currently writing the honors thesis. The students will be engaged in discussion of their research topics, the "how to" of thesis research, and thesis guidelines, timelines, and deadlines. Each student is required to present the research at the Senior Thesis Colloquium.
Notes: Offered in fall, spring, and summer.
560H, 561H. Individual Directed Study (3).
Juniors or seniors may elect individual directed study to be guided by an instructor of their choice in accordance with a plan approved by the Honors Director.
Notes: A grade of $S$ or $U$ is recorded.

## Human Nutrition (NUTR)

201. Investigative Science: Human Nutrition (4:3:2). Students will learn how to carry out simple scientific investigations. Emphasis will be on investigative processes, rather than on scientific content. Students will design and execute controlled experiments or observation, analyze data, draw conclusions and write reports on their results.
Prerequisite(s): WRIT 102 or CRTW 201 and CTQR 150 or MATH 105 or MATH 201 or any course with MATH 201 as a prerequisite.
Notes: Lab Fee: $\$ 35$. For 5 hours per week ( 2.5 hrs per session) in combined lecture/lab format. Offered in fall, spring and summer.

## 221. Human Nutrition (3).

Basic nutrition concepts applied to the needs of individuals, families, and communities.
Notes: Lab Fee: $\$ 10$. Offered in fall, spring, and summer.
226. Orientation to Dietetics (1).

History and role of Registered Dietitians on health care teams. Introduction to experiential and academic requirements for accredited dietetic internships.
Prerequisite(s): Human Nutrition majors only.
Notes: Offered in spring.
320. Weight Control Through Diet and Exercise (2:1:2).

Lecture and laboratory designed to demonstrate principles of nutrition and exercise related to the control of body weight. (Same as PHED 320).
Notes: Offered in spring.
321. Food Composition (3).

Basic principles of food technology and nutrient composition of foods.
Prerequisite(s): NUTR 221 may be taken as a co-requisite. Notes: Offered in the fall and summer.
322. Food Composition Laboratory (1:0:3).

Basic food technology and food composition experiments conducted in laboratory.
Corequisite(s): NUTR 321.
Notes: Lab Fee: $\$ 40$. Offered in the fall and summer.
327. Medical Terminology (1).

Basic medical language used in scientific inquiry and health care environments.
Prerequisite(s): NUTR 221.
Notes: Offered in fall, spring and summer.
340 A, B, C. Cooperative Education Experience (1) (2) (3). Provides on-the-job training in a professional field related to a student's major or career interests.
Prerequisite(s): NUTR 471, overall GPA 2.5 and minimum of 24 earned undergraduate semester hours. Placement objectives must be approved by Department Chair prior to enrollment.
Notes: For Human Nutrition majors only. Courses may be repeated for credit; however, a maximum of 3 hours may be applied toward a degree in Human Nutrition. A grade of $S$ or $U$ is recorded. Offered in fall, spring, and summer.

## 370. Cultural Foods (3).

Historical, religious, and socio-cultural influences on the development of cuisine, meal patterns, eating customs, and nutrition status of various ethnic groups.
Prerequisite(s): NUTR 221.
Notes: Offered in spring.
371. Foodservice Systems (3).

Systems approach to foodservice, menu engineering, history and types of foodservice operations.
Prerequisite(s): NUTR 221, NUTR 321, NUTR 322,
completion of general education math and technology requirements.
Notes: Offered in fall.

## 421. Nutrition through the Life Span (3).

Nutrient utilization and requirements in human beings throughout the life cycle .
Prerequisite(s): NUTR 221 and CHEM 106, CHEM 108.
Notes: Lab Fee: $\$ 15$. Offered in fall.

## 427. Principles of Clinical Nutrition (3:2:2).

Introduction to the nutritional management of disease, medical terms, assessment, interviewing and counseling in clinical environment.
Prerequisite(s): NUTR 421, BIOL 308.
Notes: Lab Fee: $\$ 10$. Offered in spring.
450. Honors: Selected Topics in Food and Nutrition (3).

Preparation and execution of an honors project.
Prerequisite(s): 16 semester hours in NUTR courses and consent of faculty adviser.
Notes: Offered in fall and spring.
471. Institutional Foodservice Procurement and Production (3).
Principles of menu planning, quantity food purchasing, production and service.
Prerequisite(s): NUTR 221, 321, 322, and 371, and completion of general education math and technology requirements.
Notes: Offered in spring.
491. Internship Experience (3).

Provides training in a professional environment. Course may be repeated for credit; however, a maximum of 6 hours of internship experience credit may be applied toward the Bachelor of Science degree in Human Nutrition.
Prerequisite(s): Permission of the Department Chair.
Notes: A grade of S or U is recorded. Offered in fall, spring, and summer.

Courses numbered above 499 have a prerequisite of junior status (54 hours) or permission of the Chair of the Department of Human Nutrition.
520. Sports Nutrition (3).

Assessment of specific nutritional needs of intercollegiate and recreational athletes.
Prerequisite(s): NUTR 221.
Notes: Offered in spring.
520H. Sports Nutrition (3).
Assessment of specific nutritional needs of intercollegiate and recreational athletes.
Prerequisite(s): NUTR 427 and permission of Department Chair.
Notes: Offered in spring.
521. Nutrition and Metabolism (3).

Physiological and biochemical bases of nutrient utilization and energy metabolism.
Prerequisite(s): BIOL 308, NUTR 421, and CHEM 521.
Notes: Lab Fee: $\$ 15$. Offered in fall.
522. Community Nutrition (3).

Nutritional studies of groups and community resources and programs providing nutritional services.
Prerequisite(s): NUTR 427 or permission of instructor.
Notes: Offered in fall and summer.
523. Food Science Principles (3).

Chemical and physical factors affecting food composition and quality.
Prerequisite(s): NUTR 321 and 322; CHEM 301 and 303 or equivalent; or permission of instructor.
Corequisite(s): NUTR 524.
Notes: Offered in spring.
524. Sensory and Objective Evaluation of Foods (1:0:3). Sensory and objective evaluation of food products prepared in the laboratory.
Corequisite(s): NUTR 523.
Notes: Lab Fee: $\$ 50$. Offered in spring.
527. Medical Nutrition Therapy (3).

Nutritional requirements and care of acutely ill individuals.
Prerequisite(s): NUTR 427; CHEM 301 and 303.
Notes: Lab Fee: $\$ 15$. Offered in fall.

## 534. Seminar in Human Nutrition (3).

Contemporary issues, trends and research in human nutrition are discussed and evaluated critically. Special emphasis on assessment, evaluation, and documentation
of nutrition status.
Prerequisite(s): NUTR 427.
Notes: Offered in fall. Intensive Writing course.
551-569. Special Topics: Food and/or Nutrition (1, 2, or 3).

Individual student projects executed in the laboratory,
library and/or in the community.
Prerequisite(s): Permission of department chair.
Notes: Offered in fall and spring.
572. Dietetics Management (3).

Analysis of the planning, organizing, directing, evaluating, and controlling of resources in foodservice, community nutrition, and medical nutrition therapy.
Prerequisite(s): NUTR 340C and 471 or equivalents. Notes: Offered in spring.

## Integrated Marketing Communication (IMCO)

105. Introduction to Integrated Marketing Communication (1).
An introduction to the principles and practices of integrated marketing communication, including attention to advertising, public relations and sales promotion.
Notes: Offered in fall.

## 475. Senior Seminar in Integrated Marketing Communi-

## cation (3).

Integrative seminar in integrated marketing communication theory, practices and professional philosophy.
Capstone course for integrated marketing communication majors.
Prerequisite(s): Senior standing, C or better in MCOM 341, MCOM 370, MKTG 481, and 2.0 or higher GPA and IMCO major status or written permission of program chair.
Notes: Offered in fall and spring.

## 553. Special Topics in IMC (3).

Prerequisite(s): Junior standing, 2.0 GPA and permission of instructor.
Notes: Offered occasionally. May be retaken for additional credit.

## Interior Design (INDS)

## 101. Interior Design Fundamentals (3).

An introduction to the profession and an investigation of the criteria by which design quality can be evaluated and applied to creative design.
Notes: Lab Fee: $\$ 15$. Offered in the fall.

## 201. Surface Design (3:7).

Principles of two-dimensional design for the embellishment of interior surfaces, products, and textiles.
Prerequisite(s): ARTS 101, 102.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.

## 231. Interior Design I: Residential (3:7).

Residential interiors with a focus on the individual/family and their requirements.

Prerequisite(s): INDS 101, 201; ARTS 101, 102, 120, 202, 220.

Notes: Lab Fee: $\$ 20$. Offered in fall.
232. Design Presentation and Media (3:7).

Introduction to communication methods used by the professional interior designer to produce interior plans, elevations, and perspectives.
Prerequisite(s): INDS 101, 201; ARTS 101, 102, 120, 202, 220.

Notes: Lab Fee: $\$ 15$. Offered in fall.
234. CAD for Interior Designers (3:7).

Basics of computer-aided drafting, including hardware, software systems, and operating systems and development of skills for creating and plotting of interior design technical and presentation drawings.
Prerequisite(s): INDS 101, completion of Foundations
Review.
Notes: Lab Fee: \$20. Offered in the fall.
241. Housing and Home Planning (3:2:2).

A study of housing types and usage with a special focus on light frame residential construction principles and techniques.
Prerequisite(s): INDS 234.
Notes: Lab Fee: $\$ 20$. Offered in spring.
242. Textiles for Interior Design (3).

Textile properties, usage, and performance relative to the use of textiles in the interior environment.
Notes: Offered in spring semester.
252. Lighting (3:3:0).

The study of lighting fundamentals for the built environment.
Prerequisite(s): INDS 231, INDS 232, INDS 234.
Notes: Offered in spring.
All INDS Studio courses (3:7) numbered above 299 have a prerequisite of junior status and the successful completion of the Specialization Portfolio Review or permission of the Chair of the Department of Art and Design.

## 320. Interior Design Project Documentation (2).

The study of interior design contract document produc-
tion: working drawings, specifications, and construction documents for the interior designer.
Prerequisite(s): Sophomore Portfolio Review.
Corequisite(s): INDS 336.
Notes: Lab Fee: $\$ 20$. Offered in fall.
333. Interior Design II: Residential (3:7).

Advanced residential interior design.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.

## 336. Codes and Standards (2).

The study of Architectural Building Codes and Standards, state and local laws and ordinances, and federal laws used for the regulation of building construction, renovation, and interior design for fire safety, structural safety and health and safety.
Prerequisite(s): Sophomore Portfolio Review.

Corequisite(s): INDS 320.
Notes: Offered in fall.
337. Historic Interiors and Architecture: Pre-Classical through Neo-Classic ( $3: 3: 0$ ).
Historic development of interiors and architecture related to major styles from the Pre-Classical to Neo-Classic.
Prerequisite(s): ARTH 175, ARTH 176.
Notes: Offered in spring.
338. Historic Interiors and Architecture:Neo-Classic through Present (3:3:0).
Historic development of interiors and architecture related
to major styles from Neo-Classic to 21st Century.
Prerequisite(s): ARTH 175, ARTH 176, INDS 337.
Notes: Offered in fall.
340. Cooperative Education Experience (3:1:3).

A cooperative education experience to provide training for the INDS major in a professional environment. A maximum of 6 hours of cooperative education may be applied toward the Bachelor of Fine Arts degree.
Prerequisite(s): Passing of Sophomore Portfolio Review.
Notes: Offered in fall, spring and summer.
344. Millwork Detailing (3:0:7).

Design of cabinetry and furniture for contemporary interiors.
Prerequisite(s): Passage of Specialization Review, INDS
320, INDS 333, INDS 336.
Notes: Lab Fee: $\$ 25$. Offered in fall.
432. Interior Design III: Commercial (3:7).

Space planning and design of interiors for offices, public areas and other commercial facilities.
Prerequisite(s): INDS 333.
Notes: Lab Fee: $\$ 20$. Offered in fall.
433. Interior Design IV: Commercial (3:7).

Space planning and design of environments used in retailing, hospitality and related non-office spaces.
Prerequisite(s): INDS 333, 343.
Notes: Lab Fee: \$20. Offered in spring.
443. Textile Design: Structural (3:7).

Principles of fabric design with woven structures.
Prerequisite(s): Permission of the instructor.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.
450. Honors: Selected topics in Interior Design (3). Preparation and execution of an honors project. Prerequisite(s): 16 semester hours in ARTH, ARTS, INDS courses, consent of faculty adviser, and permission of Department Chair.
Notes: A grade of S or U is recorded. Offered in fall.
481, 482, 483. Special Topics in Interior Design (1:2) (2:4) (3:6).
Extends individual opportunities in interior design beyond existing curriculum limits.
Prerequisite(s): Permission of the Department Chair .
Notes: Offered in fall, spring and summer.
484. Historic Preservation (3:0:7).

Planning, research and presentation of interiors designed in historical styles with an emphasis on historical preservation and research.
Prerequisite(s): ARTH 175, ARTH 176; INDS 337, INDS 338.

Notes: Lab Fee: $\$ 25$. Offered in fall.
488. Senior Thesis (3:7).

The final assessment course for majors in interior design.
Requires the development of a self-generated, comprehensive juried design project.
Prerequisite(s): INDS 333, 432, 433.
Notes: Offered in spring.

## International Area Studies (INAS)

425. Seminar in International Area Studies (3).

Interdisciplinary study of a contemporary multicultural, multinational, or global problem.
Notes: Offered in fall and spring.

## Italian (ITAL)

101. Elementary Italian (4).

Elementary language requiring no previous experience. Basic skills of speaking, listening comprehension, reading and writing.
Notes: Lab Fee: $\$ 25$. Offered in fall.

## 102. Elementary Italian (4).

Basic skills of speaking, listening comprehension, reading and writing.
Prerequisite(s): Students who elect to take a 101 language course must receive at least a $C$ (or $S$ ) in that language course before continuing on to 102 of that language. Notes: Lab Fee: $\$ 25$. Offered in spring.

## Japanese (JAPN)

101. Elementary Japanese (4).

Introduction to elementary Japanese language with emphasis on the four skills of conversation, comprehension, reading and writing.
Notes: Lab Fee: $\$ 25$. Offered in fall.

## 102. Elementary Japanese (4).

Introduction to elementary Japanese language with emphasis on the four skills of conversation, comprehension, reading and writing. This course is a continuation of JAPN 101.
Prerequisite(s): Students who elect to take a 101 language course must receive at least a $C$ (or $S$ ) in that language course before continuing on to 102 of that language. Notes: Lab Fee: $\$ 25$. Offered in spring.

## LATIN/MANAGEMENT

## Latin (LATN)

101. Elementary Latin (4).

Notes: Lab Fee: \$25. Offered in fall.
102. Elementary Latin (4).

Prerequisite(s): Students who elect to take a 101 language course must receive at least a $C$ (or $S$ ) in that language course before continuing on to 102 of that language. Notes: Lab Fee: $\$ 25$. Offered in the spring.

## 201. Intermediate Latin (3).

Prerequisite(s): LATN 102 or equivalent study of the language. Students who have completed at least two years of Latin in high school with a grade of A or B are encouraged to enroll in LATN 201.
Notes: Lab Fee: \$20. Offered variable times.

## Management (MGMT)

All MGMT courses have a prerequisite of junior status, an overall GPA of at least 2.00 and a grade of $C$ or better in CRTW 201 or WRIT 102.
321. Principles of Management (3).

Comprehensive survey of the basic principles of management applicable to all forms of business.

## 325. Organizational Theory and Behavior (3).

Behavior in organizations, individual and group processes and behavior, and organizational processes including the work setting and planned changes.
Prerequisite(s): PSYC 101 and MGMT 321.
326. Operations Management (3).

Design and management of operations in manufacturing and services. Operations strategies, design of processes, facilities and work. Management of quality, inventories, projects, and schedules.
Prerequisite(s): QMTH 205.

## 341. Information Systems (3).

Concepts of information systems are presented. Technical foundations of information systems, processes for building and managing information systems, and systems that support management and the organization are covered.
Prerequisite(s): ACCT 280 and QMTH 205.
355. Business Communication (3).

Communications theory and practice required in business as related to individuals, small groups, and organizations.

## 365. Principles of Real Estate (3).

Introduction to broad range of real estate terms, concepts, practices, and current issues.

## 422. Human Resources Management (3).

Contemporary theory and practice of human resource management with emphasis on the behavioral sciences approach.
Prerequisite(s): MGMT 321.
425. Training and Development (3:3:0).

Employee training and development is a central component of the human resource function. This course teaches students how to develop, implement and evaluate a training program.
Prerequisite(s): MGMT 321.
428. Management Seminar (3).

A survey of current issues in management with special emphasis on the integration of various management functions.
Prerequisite(s): MGMT 321, MGMT 325 and MGMT 326.
480. Business Policy (3).

Seminar in applied business, designed to integrate all subjects of business administration required for business administration majors. A component of the course will be devoted to the assessment of student understanding of the other required core business courses (Areas III, VI, and VII).

Prerequisite(s): FINC 311, MGMT 321, MKTG 380, MGMT 326, MGMT 341, MGMT 355.
Corequisite(s): BADM 350.
Notes: Open to senior majors in business administration.

## 491. Internship in Management (3).

The internship in management provides opportunities for students to integrate course work into practical work settings. This course applies the academic and conceptual to the practical; students supervised by faculty, will work a minimum of 150 hours during a semester or summer term.
Prerequisite(s): 2.5 GPA and must have completed MGMT 325 and an additional Management option course. For Business Majors only.
Notes: BADM Majors only. Permission of instructor required. Will not satisfy the HCMT internship requirement.
523. Collective Bargaining and Labor Relations (3). Recognition, negotiation and administration of labor agreements in the public and private sector. Also covered is the bargaining process in general and human resource management in a union-free environment.
Prerequisite(s): MGMT 321.
524. Employment Law (3).

Private and public sector employment law with emphasis on labor relations, employment discrimination and current trends in the public policy of regulation of the employment relationship.
Prerequisite(s): MGMT 321.
526. Compensation and Benefits Analysis (3). Planning, designing and controlling benefit and compensation systems integrating current knowledge on the relationship between work, reward and productivity. Philosophical, technical and legal issues will be addressed. Prerequisite(s): MGMT 321.

## 529. International Management (3:3:0).

Cultural, legal and ethical context of international management. International strategic, operational, human

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resources and information systems management. Organization and control systems. Cross-cultural issues in communication, leadership, motivation, negotiation and teamwork.
Prerequisite(s): MGMT 321.

## Marketing (MKTG)

All Marketing courses have a prerequisite of junior status, an overall GPA of at least 2.0, and a grade of C or better in CRTW 201 or WRIT 102.

## 380. Principles of Marketing (3).

Survey of principles organizations use in marketing goods, services, ideas, and people. Hands-on integrated project using marketing concepts to help students see the interrelation and interdependence of various business functions.
Prerequisite(s): ACCT 280.
381. Consumer Behavior (3:3:0).

Comprehensive survey of the basic concepts, methods, and models used in understanding, explaining, and predicting both individual and organizational buyer motivation and behavior.
Prerequisite(s): MKTG 380.
382. Retailing (3:3:0).

Contemporary issues in retailing with emphasis on management, operations methods, and their retailing environment.
Prerequisite(s): MKTG 380.
383. Professional Sales and Marketing (3:3:0).

Sales techniques, understanding human behavior, personal communication and persuasion skills in a face-to-face setting, self management, and career-path planning in sales and sales management.
Prerequisite(s): MKTG 380.

## 481. Promotion Management (3:3:0).

Contemporary theory and practice of marketing communications including integration of promotion mix elements. Focus on planning/execution of advertising, PR, personal selling, sales promotion, POP, and electronic communications strategies.
Prerequisite(s): MKTG 380.
482. Marketing Research (3:3:0).

Study of qualitative and quantitative marketing research methods and how various research techniques are used in marketing decision making. Students have an opportunity to conduct simple research studies.
Prerequisite(s): MKTG 380, QMTH 205 and 206.
484. Sport Marketing (3:3:0).

The purpose of this course is to further explore the principles of marketing and how these concepts relate to the context of sport. Major components to be stressed will be the uniqueness of marketing sport, the sport product's attributes, application of the four P's of marketing to the sport setting, sport marketing's fifth P , sales and customer
service in sport, and the interaction and coordination of these marketing principles.
Prerequisite(s): Junior or Senior standing, grade of C or higher in MKTG 380, SPMA major.
Notes: Offered in spring.
489. Marketing Strategy (3:3:0).

A "Capstone" marketing course integrating buyer behavior, the marketing mix, economics, accounting, finance and the strategic marketing decision-making process under a variety of environmental conditions. Prerequisite(s): Senior standing is required and the following prerequisite courses must be completed: MKTG 381 and 3 from FINC 311, MKTG 382, 383, 481, 482, , 581 and 582.

## 491. Internship in Marketing (3).

The internship in marketing provides opportunities for students to integrate course work into practical work settings. This course applies the academic and conceptual to the practical; students supervised by faculty, will work a minimum of 150 hours during a semester or summer term.
Prerequisite(s): 2.5 GPA and must have completed MKTG 381 and an additional Marketing option course. For Business Majors only.
Notes: Permission of instructor required. Will not satisfy the HCMT internship requirement.
492. Field Experience in Marketing (3).

This field experience in marketing provides undergraduate students with the opportunity to integrate marketing course work into a practical, client-service context. Students will form an actual marketing organization and work together as a professional team to achieve a client's objectives. Close interaction with the client will be required, as will a formal presentation and demonstration of results.
Prerequisite(s): MKTG 380, MKTG 381, MKTG 481 and GPA $>=3.0$. Course also limited to MKTG or IMCO majors only.
581. Marketing for Global Competitiveness (3:3:0). Prepares managers for the challenges of competing in a global marketplace.
Prerequisite(s): MKTG 380.
582. Sales Management (3:3:0).

Sales force management including selection, training, compensation, motivation, and evaluation of the sales organization.
Prerequisite(s): MKTG 380.

## Mass Communication (MCOM)

101. Mass Media and the Information Age (3).

Critical analysis of the media of mass communication, their content, the sources and biases of their content, limitations of the media and effects of the media. Primarily for non-majors.
Notes: Offered at variable times.

MASS COMMUNICATION

## 205. Introduction to Mass Communication (3).

Introduction to the major fields of mass communication with emphasis on advertising, broadcasting, newspapers, magazines, and public relations, and the history of each. Notes: Offered in fall and spring.

## 241. Media Writing (3:2:2).

The study of and practice in writing for print and broadcast media.
Prerequisite(s): CTQR 150, B or better in WRIT 101 or written permission of the department chair , 2.0 cumulative GPA and keyboard proficiency as tested by the department.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.
302. International Communication (3).

Examination of the flow of information throughout the world, and the communication systems that deliver it both within countries and across international borders. Helps build appreciation of cultural diversity and how differences in culture, forms of government and information delivery systems affect worldwide communication.
Prerequisite(s): Junior standing and 2.00 GPA or written permission of department chair.
Notes: Offered in the spring.
325. Broadcast Journalism (3:2:2).

Journalistic writing for the broadcast media with emphasis on writing and production procedures.
Prerequisite(s): Grade of C or better in MCOM 241 and 2.00 GPA and MCOM or IMCO major status or written permission of department chair.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.

## 331. Editorial Interpretation (3).

Analyzing topics and writing editorials, columns and other opinion articles for print and broadcast media with emphasis on persuasive use of language.
Prerequisite(s): Grade of C or better in MCOM 241 or permission of instructor and 2.00 GPA.
Notes: Intensive Writing course. Offered at variable times.

## 333. News Editing (3:2:2).

Editing skills for the copy editor with emphasis on news judgment, news style, newspaper layout, legal considerations, and picture editing.
Prerequisite(s): Grade of C or better in MCOM 241 and 2.00 GPA and MCOM or IMCO major status or written permission of department chair.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.

## 340. Publication Production (3:2:2).

Production techniques and methods for printed publications with attention to communication theory and effects of printed pieces, typography, illustration and printing limitations and cost factors.
Prerequisite(s): C or better in MCOM 241 and 2.0 or higher GPA.
Notes: Lab Fee: \$25. Offered at variable times.

## 341. Advertising Principles (3).

Study of advertising theory and techniques in print and
electronic media with emphasis on the relationship between marketing and the creative process.
Prerequisite(s): Sophomore standing and 2.00 GPA.
Notes: Offered in fall and spring.

## 342. News Reporting (3:2:2).

Reporting principles and news writing techniques applied to writing publishable stories from campus and community sources; laboratory exercises.
Prerequisite(s): Grade of C or better in MCOM 241, 2.0
GPA and MCOM or IMCO major status or written permission of department chair.
Notes: Lab Fee: $\$ 25$. Intensive Writing course. Offered in fall.
343. Feature Writing (3).

Techniques of writing feature stories for newspapers and magazines. Students will write stories for possible publication.
Prerequisite(s): C or better in MCOM 241 and 2.00 GPA or written permission of department chair.
Notes: Lab Fee: $\$ 25$. Intensive Writing course. Offered in fall.

## 346. Principles of Television Production (3:2:2).

Development, writing, direction and production of basic television program types; laboratory practice with student written scripts.
Prerequisite(s): Grade of C or better in MCOM 241, 2.0
GPA and MCOM or IMCO major status or written permission of department chair.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.

## 349. Advertising Copy and Layout (3).

Theory and practice of writing advertising copy for print and electronic media, conceptualizing television commercials and laying out print advertisements.
Prerequisite(s): MCOM 341 and 2.00 GPA or written permission of department chair.
Notes: Offered in the spring.

## 350. History of American Mass Media (3).

Development of American journalism and mass media and their relationship to American society with emphasis on socio-cultural and political aspects.
Prerequisite(s): HIST 212 and 2.00 GPA or written
permission of department chair.
Notes: Offered variable times.

## 370. Public Relations Principles (3).

Study of communications to influence public opinion, solving public relations problems, practice in developing a public relations campaign.
Prerequisite(s): Sophomore standing and 2.00 GPA or written permission of department chair.
Notes: Offered in fall and spring.

## 377. Community and Civic Journalism (3).

Study of the role of journalism in the community and as a catalyst for positive change. Media that practice civic journalism help maintain civic and communal identity of the place and people they serve. Emphasis on framework, principles, key players, issues and challenges of commu-
nity and civic journalism.
Prerequisite(s): Junior standing and 2.00 GPA or written permission of the instructor.
Notes: Offered at variable times.

## 410. Mass Media Law (3).

Legal problems of defamation, privacy, copyright, obscenity, anti-trust, and the regulation of advertising and broadcasting.
Prerequisite(s): Junior standing and a 2.00 GPA.
Notes: Offered in fall and spring.

## 412. Ethics and Issues in Mass Communication (3).

Ethical problems and issues in newspapers, broadcasting, broadcast journalism, advertising, and public relations.
Career development information and strategies.
Prerequisite(s): Senior standing and 2.0 GPA.
Notes: Intensive Writing course. Offered in fall and spring.
425. Advanced Broadcast Journalism (3:2:2).

Study and practice of advanced methods for gathering, writing and editing broadcast news.
Prerequisite(s): Grade of C or better in MCOM 241, 325, and 346, 2.0 GPA and MCOM major status or written permission of department chair.
Notes: Lab Fee: $\$ 40$. Offered in fall.

## 441. Reporting Public Affairs (3).

Instruction and practice in reporting all areas of public affairs, including government and the courts. Use of precision journalism techniques and investigative reporting of special in-depth subjects.
Prerequisite(s): PLSC 202, C or better in MCOM 241, 2.0 GPA and MCOM or IMCO major status or written permission of department chair.
Notes: Intensive Writing course. Offered in the fall and spring.
444. Media Management (3).

Management theories and practices as applied to broadcast and print media organizations, unique characteristics of media organizations, operating philosophies, leading media organizations, legal issues and regulations, and related topics.
Prerequisite(s): 12 hours of MCOM and minimum 2.0
GPA or permission.
Notes: Offered at variable times.

## 446. Advanced Television Production (3:2:2).

Planning, writing and producing programming for television.
Prerequisite(s): C or better in MCOM 241, 325 and 346; 2.0 GPA and MCOM major status or written permission of department chair.
Notes: Lab Fee: $\$ 40$. Offered in fall and spring.
447. Broadcast Programming, Sales and Promotion (3). Study of the importance of these critical areas in broadcasting and how they interact.
Prerequisite(s): C or better in MCOM 241 and 2.00 GPA or written permission of department chair.
Notes: Offered in fall.
450. Honors: Special Topics in Mass Communication (3). An independent inquiry in depth into a selected topic in mass communication.
Prerequisite(s): Written proposal, 18 hours of MCOM and approval of the Department Chair.
Notes: Individually arranged.
461, 462, 463. Mass Communication Internship (1) (2) (3). Practical applications of mass communication theory and skills through professional practice at newspapers, radio and television stations, advertising and public relations agencies and related sites supervised by department faculty.
Prerequisite(s): MCOM 241 and 6 hours from MCOM 325, 331, 333, 341, 342, 343, 346, 347, 348, 370, 377, 410, 425,
$441,446,447$ and 471 with a grade-point average of 2.0 or higher in these courses, or permission of Chair. Open only to mass communication majors. Application to the department and approval by the department chair and Dean of the College of Arts and Sciences are required before registering for the course.
Notes: A student may not receive more than three hours credit in MCOM 461, 462, 463. A grade of S or $U$ is recorded for these courses. Individually arranged.
471. Public Relations Writing and Production (3:2:2). Preparing public relations messages, including news releases, public service announcements, press kits, audiovisual presentations, fliers, pamphlets, brochures, newsletters, direct mail, and corporate advertising. Planning special events and news conferences. Prerequisite(s): C or better in MCOM 241 or 370, 2.00 GPA and MCOM or IMCO major status or written permission of department chair.
Notes: Lab Fee: $\$ 25$. Intensive Writing course. Offered in spring.

491, 492, 493. Independent Study (1) (2) (3).
Independent study guided by a faculty member. Prerequisite(s): 18 hours of MCOM with a 3.0 or higher GPA and an overall 2.75 or higher GPA; written proposal and approval of Department Chair.
Notes: May be repeated. A grade of $S$ or $U$ will be assigned. Individually arranged.
494. Mass Communicaton Practicum (1:0:2).

Professional practice in a professional course or courses in the department in a role selected by department faculty involved.
Prerequisite(s): Junior standing, C or better in 15 hours of mass communication and 2.00 GPA and MCOM major status or written permission of department chair.
495. Special Topics in Mass Communication (3). Selected topics of current significance.
Prerequisite(s): Junior standing and 2.00 GPA or written permission of department chair.
Notes: May be repeated for credit if topics vary. Offered variable times.

## 499. Senior Portfolio (1).

Development of a portfolio of professional and related work that is formally presented to a committee of depart-

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ment faculty members and an external reviewer.
Prerequisite(s): Senior standing, 2.00 GPA, mass communication or integrated marketing communication major, and application for graduation in the semester the course is taken.
Notes: Offered at variable times.

## 510. Magazine Editing and Production (3).

Theory and techniques of magazine editing and production; editorial objectives and formulas, issue planning, article selection, layout, illustration, typography, printing and circulation. Magazine project required.
Prerequisite(s): Junior standing and 2.0 GPA.
Notes: Offered at variable times

## 551-553. Special Topics in Mass Communication (1) (2)

 (3).Prerequisite(s): Permission of instructor.
Notes: May be retaken for additional credit. May count only as elective hours for Mass Communication majors and minors. Offered variable times.

## Mathematics (MATH)

101. Precalculus Mathematics I (3).

Preparation for the study of calculus, including linear functions, polynomials, rational functions, exponential and logarithmic functions.
Prerequisite(s): Satisfactory score on Mathematics Department Placement Test.
Notes: Credit will not be allowed for MATH 101 and MATH 103. Offered in the fall, spring and summer.

101E. Algebra and Precalculus Mathematics (3:3:3). Preparation for the study of calculus, including basic algebra, polynomials, and linear, rational, exponential and logarithmic functions. Credit will not be awarded for both MATH 101 and MATH 101E.
103. Algebra and Trigonometry (4).

A semester course designed specifically for the students in science and mathematics majors to prepare for the study of calculus, including topics in MATH 101 and further study in trigonometry.
Prerequisite(s): High school Algebra II and a satisfactory score on the Mathematics Department Placement Test. Notes: Credit will not be allowed for MATH 103 and MATH 101. Offered in fall and spring.

## 104. Trigonometry for Calculus (1).

This course is designed to be taken concurrently with MATH 101 or MATH 201. Content includes basic properties and identities of trigonometry, Euler's formula, double angle identities and inverse functions.
Prerequisite(s): Permission of Mathematics Dept.
Corequisite(s): MATH 101 or MATH 201.
Notes: Offered in fall and spring.
105. Calculus for the Managerial and Life Sciences (3). Calculus from a non-theoretical perspective, including rates of change, the derivative, maximizing and minimizing functions, exponential and logarithmic functions,
indefinite and definite integrals.
Prerequisite(s): MATH 101, 101E, or 103.
Notes: Credit will not be allowed for MATH 105 and MATH 201. Offered in fall, spring and summer.

## 141. Finite Probability and Statistics (3).

Elementary topics in probability and statistics, including descriptive statistics, the binomial and normal distributions, estimation, hypothesis testing, simple linear regression and correlation.
Prerequisite(s): MATH 101 or MATH 103, or CTQR 150.
Notes: Offered in fall, spring and summer.
201. Calculus I (3).

Limits, continuity, and the definition of the derivatives; techniques of differentiation, graphing, maximum/ minimum and related rate problems; definite integrals and the fundamental theorem of calculus.
Prerequisite(s): MATH 101 and MATH 104, or MATH 103, or satisfactory score on the Mathematics Department Placement Test.
Corequisite(s): MAED 200.
Notes: Credit will not be allowed for MATH 105 and MATH 201. Offered in fall, spring, and summer.

## 202. Calculus II (3).

Applications of integration, transcendental functions, techniques of integration, improper integrals, sequences, series, and power series.
Prerequisite(s): MATH 201.
Notes: Offered in fall, spring and summer.
261. Foundations of Discrete Mathematics (3).

Introduction to various numeration systems, including binary and hexadecimal; elementary set theory, logic and combinatorics; recursion, mathematical induction, elementary matrix operations and Boolean algebra. Prerequisite(s): MATH 101 or equivalent.
Notes: Offered in fall, spring and summer.

## 291. Basic Number Concepts for Teachers (3:3:0).

In depth study of the meaning and application of basic number concepts.
Prerequisite(s): CTQR 150 with a grade of C or better. Restricted to Early Childhood, Elementary, Middle School, and Special Education majors.
Notes: Offered in fall, spring and summer.

## 292. Number, Measurement, and Geometry Concepts for

 Teachers (3:3:0).In depth study of the meaning and application of rational numbers, basic geometric concepts, and measurement. Prerequisite(s): MATH 291 with a grade of C or better. Restricted to Early Childhood, Elementary, Middle School, and Special Education majors.
Notes: Offered in fall, spring and summer.
300. Linear Algebra (3).

Matrices and the solution of systems of linear equations; elementary theory of vector spaces and linear transformations; determinants, eigenvalues, and eigenvectors.
Prerequisite(s): MATH 201.
Corequisite(s): MATH 202.

Notes: Offered in fall and spring.
301. Calculus III (3).

Conic sections and polar coordinates; vectors in two and three dimensions, including lines and planes; calculus of vector-valued functions; functions of several variables and partial derivatives.
Prerequisite(s): MATH 202.
Notes: Offered in fall and spring.
301H. Honors Calculus III (3).
Sequences, series and power series; conic sections; vectors in two and three dimensions, including lines and planes;
calculus of vector-valued functions. Enrollment restricted to freshmen only.
Prerequisite(s): Satisfactory score on AP Calculus AB exam or permission of the Chair.
Notes: Offered in fall.
302. Calculus IV (3).

Applications of partial derivatives, Lagrange multipliers, multiple integration, line integrals, surface integrals, Green's theorem, the divergence theorem, and Stokes' theorem.
Prerequisite(s): MATH 301.
Notes: Offered in spring.
302H. Honors Calculus IV (3).
Functions of several variables, partial derivatives and their applications; Lagrange multipliers; multiple integration,
line and surface integrals; Green's theorem, the divergence theorem and Stokes' theorem.
Prerequisite(s): MATH 301H.
Notes: Offered in spring.
305. Introduction to Differential Equations (3).

Techniques for the solution of first and second order ordinary differential equations, and linear systems of first order ordinary differential equations.
Prerequisite(s): MATH 202.
Notes: Offered in spring of alternate years.
340 A,B,C. Cooperative Education Experience (1), (2), (3). Provides on-the-job training in a professional field related to a student's major or career interests.
Prerequisite(s): Overall GPA 2.5 and minimum of 24 earned undergraduate semester hours. Placement objectives must be approved by Department Chair prior to enrollment.
Notes: For Mathematics majors only. Courses may be repeated for credit; however, a maximum of 3 hours may be applied toward a degree in Mathematics. Offered in fall, spring and summer.
351. Introduction to Modern Algebra (3:3:1).

Standard topics in the theory of groups and rings, including symmetric, dihedral, and cyclic groups, equivalence relations, integral domains, and group and ring homomorphisms. Emphasis is placed on the proper construction of mathematical proofs.
Prerequisite(s): MATH 300 and MATH 301.
Notes: Offered in spring.
355. Combinatoric Methods (3).

Applications of counting methods to mathematical modeling and problem solving.
Prerequisite(s): MATH 300.
Notes: Offered in spring of alternate years.
375. Optimization Techniques (3).

Mathematical modeling using linear programming and other methods of optimization.
Prerequisite(s): MATH 300.
Corequisite(s): MATH 302.
Notes: Offered in spring.
393. Algebra, Data Analysis, and Geometry Concepts for Teachers (3:3:0).
In depth study of the meaning and application of basic algebraic reasoning, counting techniques, proportional reasoning, and intermediate level geometry concepts. Prerequisite(s): MATH 292 with a grade of C or better. Restricted to Early Childhood, Elementary, Middle School, and Special Education majors.
Notes: Offered fall, spring, and summer.
450H. Honors: Selected Topics in Mathematics (3).
In-depth study in a mathematical topic.
Prerequisite(s): 18 hours of MATH courses and permission of Chair or instructor.
Notes: Offered on request.
461. Academic Internships in Mathematics (1:0:0). An opportunity for mathematics majors to earn credit for experience gained through apprenticeship work under the supervision of trained professionals.
Prerequisite(s): Math majors only with a GPA of at least 2.5 and prior approval from the department and Dean.

Notes: Offered in the fall, spring, and summer.
463. Academic Internships in Mathematics (3:0:0).

An opportunity for mathematics majors to earn credit for experience gained through apprenticeship work under the supervision of trained professionals.
Prerequisite(s): Math majors only with a GPA of at least
2.5 and prior approval from the department and Dean.

Notes: Offered in the fall, spring, and summer.
503. Vector Calculus (3).

Vectors, tensors, differential forms, covariant differentiation, curvature and elementary differential geometry.
Prerequisite(s): MATH 301.
Notes: Offered on demand.
509. Real Analysis I (3).

Topics in the study of functions of a real variable, includ-
ing limits, continuity, differentiability, sequences, series.
Prerequisite(s): MATH 522.
Notes: Offered in spring.
520. Foundations of Geometry (3).

Topics in Euclidean and non-Euclidean geometry, including incidence geometry, congruence, similarity, area theorems, circles and spheres.
Prerequisite(s): MATH 300.
Notes: Offered in fall.

## MATHEMATICS/MATHEMATICS EDUCATION

## 522. Elements of Set Theory and Introduction to Topol-

ogy (3).
Fundamentals of set theory and point-set topology, including functions, Cartesian products, topological spaces, open and closed sets, metric spaces, connected and compact spaces.
Prerequisite(s): MATH 300 and MATH 301.
Notes: Offered in fall.

## 535. Numerical Analysis (3).

Analysis of algorithms, including polynomial approximation of real functions, numerical differentiation and integration and manipulation of matrices.
Prerequisite(s): MATH 300 and MATH 301 or permission of chair, Department of Mathematics.
Notes: Offered on demand.
541. Probability and Statistics I (3).

Probability theory from an axiomatic viewpoint, including combinatorics, discrete and continuous random variables and multivariate distributions.
Prerequisite(s): MATH 302.
Notes: Offered in fall.

## 542. Probability and Statistics II (3).

Statistical inference from a mathematical viewpoint, including the central limit theorem, point and interval estimation and regression.
Prerequisite(s): MATH 541.
Notes: Offered in spring of alternate years.

## 543. Introduction to Stochastic Processes (3).

A survey of stochastic processes and their applications to probabilistic modeling. Topics will include discrete and continuous time Markov processes, Poisson process and time-series analysis.
Prerequisite(s): MATH 300 and 541.
Notes: Offered in spring of alternate years.

## 545. Statistical Theory and Methods II (3).

Analysis of linear models, including both regression and ANOVA models. Contingency tables are also studied. Prerequisite(s): MATH 541.
Notes: Offered alternate years in spring.

## 546. Applied Statistics for the Sciences (3).

Survey of statistical methodology applied to problems from the sciences with emphasis on the area of Health and Human Nutrition. Statistical tests will be reviewed and applied to current issues.
Prerequisite(s): MATH 141 or permission of instructor. Notes: Offered in fall and summer.

## 547. Introduction to Categorical Models (3).

An introduction to the analysis of categorical data. Topics will include methods for comparison of binomial proportions, r x c contingency tables and logistic and loglinear modeling.
Prerequisite(s): MATH 542.
Notes: Offered in spring of alternate years.
550. Special Topics in Mathematics (3:3:0). In-depth study of a mathematical topic.

Prerequisite(s): Permission of instructor.
Notes: This course maybe repeated for credit once for each topic. If this course is taken for graduate credit, additional research will be required.
551. Algebraic Structures (3).

Theory of rings and fields, with special attention to PID's,
UFD's, Euclidean domains and modules.
Prerequisite(s): MATH 351 or equivalent.
Notes: Offered alternate years in fall.
553. Theory of Numbers (3).

Divisibility, primes, congruences, special functions, continued fractions and rational approximations.
Prerequisite(s): MATH 351 or equivalent.
Notes: Offered in spring of alternate years.
575. Optimization Techniques II (3:3:0).

A continuation of MATH 375. Areas of study include mathematical modeling, integer programming, combinatorial optimization, an network algorithms.
Prerequisite(s): MATH 375.
Notes: Offered variable times.

## Mathematics Education (MAED)

200. Introduction to Mathematica (1:1:0).

Basics of the comprehensive computer algebra system
Mathematica are covered. Applications to calculus topics will include functions, limits, derivatives, integration, and graphics, as well use in mathematical instruction.
Corequisite(s): MATH 201.
Notes: Offered in fall, spring and summer.
391. Principles of Teaching Mathematics (3).

Study and application of skills of planning, instruction, management and assessment of students in mathematics. Includes a review of the ethical and legal responsibilities of mathematic teachers.
Prerequisite(s): MAED 548, Admission to Teacher Education Program.
Corequisite(s): MAED 392, EDUC 390.
Notes: A grade of S or U is recorded. Offered in fall.
392. Field Experience in Teaching Mathematics (1:0:8). Students will spend a minimum of 8 hours per week in the classroom under the supervision of a mathematics education professor and will work with a mentor teacher in preparation for the final internship experience.
Prerequisite(s): Admission to Teacher Education.
Corequisite(s): MAED 391, EDUC 390.
Notes: A grade of S or U is recorded. Offered in fall.

## 548. Secondary Math Curriculum and Pedagogy Issues

 (3:3:1).A study of the secondary mathematics curriculum (7-12). This course addresses specific instructional needs and techniques related to the teaching of secondary mathematics concepts.
Prerequisite(s): Admission to Teacher Education Program.
Notes: Intensive Writing course. Offered in spring.

## Modern Languages Education (MLAN)

330 A, B, C. Language and Cultural Studies Abroad (3-6). Under the direction of a Winthrop University professor, students pursue intensive studies of language at a foreign university. Excursions are organized to places of cultural interest.
Prerequisite(s): Completion of Fren/Span/Germ 101-102 or equivalent.
Notes: A=French; B=Spanish; C=German. Offered in the summer and on demand.
350. Writing and Research in Foreign Literature (3). Introduction to writing critical essays on French, German, and Spanish literature, including instruction and practice in locating, reading and writing critical essays.
Prerequisite(s): WRIT 102.
Notes: Offered variable times.

## 391. Principles of Teaching Modern Languages in

 Middle and Secondary Schools (3).Study and application of skills of planning, instruction, management and assessment of students in Modern Languages. Includes a review of the ethical and legal responsibilities of modern language teachers.
Prerequisite(s): Admission to Teacher Education Program.
Corequisite(s): MLAN 392, EDUC 390.
Notes: Offered in fall semester.

## 392. Field Experience in Teaching Modern Languages

 (1:0:8).Students will spend a minimum of 8 hours per week in the classroom under the supervision of a modern language education professor and will work with a mentor teacher in preparation for the final internship experience. Prerequisite(s): Admission to Teacher Education Program. Corequisite(s): MLAN 391, EDUC 390.
Notes: A grade of S or U is recorded. Offered in fall.

## 503. Applied Linguistics (3).

Study of the systems underlying language acquisition and how to apply them in effective teaching and learning. Notes: Offered on demand.

530 A, B C. Language and Cultural Studies Abroad (3-6). Under the direction of a Winthrop University professor, students pursue intensive studies of language at a foreign university. Excursions are organized to places of cultural interest.
Prerequisite(s): Completion of FREN/SPAN/GERM 101102 or equivalent.
Notes: A=French; B=Spanish; C=German. Offered in the summer and on demand.

## 591. Principles in Teaching Modern Languages (3).

To give students a 4 hour per week classroom experience on different methodology by a Modern Language education professor.
Notes: Offered in spring and offered in the fall on demand.

Music (MUST)
101. Basic Musicianship (2:2:0).

An introduction to and application of the basic elements of music with study of durational and pitch-related concepts through visual and aural means. May not count toward a music degree.
Notes: Offered in fall and spring.
111. Music Theory I (3).

An introduction to the basic concepts of music theory and the materials of music. Written and analytical applications.
Corequisite(s): MUST 113.
Notes: Offered in fall and spring.
112. Music Theory II (3).

A continuation of and expansion on the techniques and materials of MUST 111. Written and analytical applications.
Prerequisite(s): MUST 111.
Corequisite(s): MUST 114.
Notes: Offered in fall and spring.

## 113. Aural Skills I (1).

A course to develop aural skills for music theory, sight singing, and ear training.
Corequisite(s): MUST 111
Notes: Offered in fall and spring.

## 114. Aural Skills II (1).

A course to develop aural skills for music theory, sight singing, and ear training. A continuation of MUST 113. Prerequisite(s): MUST 113.
Corequisite(s): MUST 112.
Notes: Offered in fall and spring.
121. Introduction to Music Technology (1:2:0).

An introduction to computer technology with emphasis on Music Technology, data management, and document preparation.
Notes: Offered in the fall, spring, and summer.
190. Introduction to Music Education (1:2:0).

An introduction to the music education profession including historical perspectives, introductory philosophical perspectives, and career orientation.
Notes: Offered in the fall and spring.

## 203. Jazz Appreciation (3).

An introduction to the evolution, growth, and development of jazz in the U.S. from the nineteenth century to the present.
Notes: Does not count toward a music degree.
211. Music Theory III (3).

An expansion of the techniques and materials of MUST
111-112 and their application to musical styles from
Baroque through Romantic periods. Written and analyti-
cal applications.
Prerequisite(s): MUST 112.
Corequisite(s): MUST 213.
Notes: Offered in fall and spring.

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212. Music Theory IV (3).

An expansion of the techniques and materials of MUST 211 and their application to musical styles from the
Romantic to Contemporary periods. Written and analytical applications.
Prerequisite(s): MUST 211.
Corequisite(s): MUST 214.
Notes: Offered in fall and spring.

## 213. Aural Skills III (1).

A continuation of the aural skills begun in MUST 113-114.
Prerequisite(s): MUST 114 or consent of the Instructor. Corequisite(s): MUST 211.
Notes: Offered in fall and spring.
214. Aural Skills IV (1).

A continuation of aural skills from MUST 213.
Prerequisite(s): MUST 213 or consent of the Instructor.
Corequisite(s): MUST 212.
Notes: Offered in fall and spring.
280-289. Special Topics in Music (1) (2) (3).
A series at the 200-level for special courses offered by the Department of Music on a one-time basis.
Notes: Offered on demand.

## 298. Music Appreciation (3).

Introduction to the major historical periods, genres, works and styles in music literature from early times to the present.
Notes: Not open to music majors.
305. History of Music to 1750 (3).

A survey of music history and literature of Western civilization from the beginnings to 1750 .
Prerequisite(s): MUST 111 and WRIT 102.
Notes: Offered in fall.

## 306. History of Music from 1750-1900 (3).

A survey of music history and literature of Western civilization from 1750-1900.
Prerequisite(s): MUST 111 and GNED 102.
Notes: Offered in spring. Intensive Writing course.
307. Music Since 1900 (3:3:0).

A survey of music history and literature from 1900 to the present, including European, American (jazz and popular styles), and musics of non-Western cultures (global).
Prerequisite(s): MUST 112.
Notes: Offered in fall.
311. Music Theory V-20th Century (2:2:0).

An expansion of the materials of MUST 212 and the presentation of contemporary (20th Century) materials and techniques. Written and analytical applications.
Prerequisite(s): MUST 212 and 214.
Notes: Offered in fall.

## 315. Music for the Classroom Teacher (3).

Methods and materials for teaching music in the elementary classroom.
Prerequisite(s): Admission to Teacher Education Program. Notes: Not open to music majors. Restricted to Education
majors. Offered in fall, spring and summer.
317. Basic Conducting (3:3:1).

An introductory course covering score analysis, manual technique in various styles, use of baton, and rehearsal procedures for both instrumental and choral ensembles. Prerequisite(s): MUST 212 and MUSA 282 or permission of the instructor.
Notes: Offered in fall.
318. Intermediate Conducting: Choral/Instrumental (3:4). Continuation of MUST 317. Separate sections for choral and instrumental majors.
Prerequisite(s): MUST 317 or permission of instructor.
Notes: Offered in spring.
321-322. Opera Workshop (2:3) (2:3).
Laboratory class for development of skills in acting and singing on stage.
Prerequisite(s): Audition and permission of the instructor.
Notes: MUST 322 may be retaken for additional credit.
340. Cooperative Education Experience in Music (3-1). A cooperative education experience in a specified area of music that provides on-the-job training in a professional field related to a student's major or career interests.
Prerequisite(s): Overall GPA of 2.5, Junior status, permission of the Chair.

## 341. Marching Band Techniques (1).

Modern techniques for organizing and training marching bands; planning, drills, formations, shows and music.
Notes: Offered every other year in the fall.
430-439. Special Topics in Music (1) (2) (3).
Prerequisite(s): Consent of the Chair of the Department of Music.
Notes: Offered as needed.
450. Honors: Selected Topics in Music (3).

Prerequisite(s): Consent of the Chair of the Department of Music.
Notes: Offered as needed.
501. Piano Literature (3).

A study of literature for the piano from its beginning through contemporary practices.
Prerequisite(s): MUST 306 or permission of the instructor.

## 503. Organ Literature (3).

A survey of representative organ works from the 16th through the 20th centuries.
Prerequisite(s): MUST 306 or permission of the instructor.

## 505. Opera Literature (3).

Historical development of opera with detailed study of selected operas.
Prerequisite(s): MUST 306 or permission of instructor.
506. Choral Literature (3).

A survey of choral literature from 1450 through the 20th century, with detailed analysis of representative masterworks.

Prerequisite(s): MUST 306 or permission of the instructor.
507. Music Since 1900 (3).

A study of styles, trends, systems and literature from about 1900 to the present, including neo-tonal, atonal, serial, electronic and experimental formats.
Prerequisite(s): MUST 306 and 212 or equivalent.

## 508. Standard Choral Repertory (3).

A survey of the standard choral repertory for high school singers. The class will analyze, sing and play excerpts from about 200 sacred and secular pieces in varying levels of difficulty (grade II through V).
Prerequisite(s): MUSA 282, MUST 212 and 507, or permission of instructor.

## 509. Art Song Literature (3).

A survey of European and American art song with emphasis on 19th and 20th century German and French literature.
Prerequisite(s): MUST 306 or permission of the instructor.

## 511. Orchestration and Arranging (3).

Techniques and principles of scoring for strings, woodwinds, brass, percussion and chorus; arranging and adapting music for instrumental and/or choral groups. Prerequisite(s): MUST 212 and any two of MUSA 291, 293, 295 or 297.

## 512. Analytical Techniques (3).

A capstone course that assimilates aspects of music theory, harmony, analysis and aural skills needed for advanced courses in literature, history, performance and music education.
Prerequisite(s): MUST 212 and MUST 214, or graduate standing.

## 513. Counterpoint (3).

Study of contrapuntal techniques from the Renaissance to the present, emphasizing J.S. Bach. Writing projects include 16th-century and 18th-century inventions, canons and fugues.
Prerequisite(s): MUST 212 or permission of instructor.

## 514. History of Jazz (3).

An examination of jazz styles, including extensive study of several major figures. Students learn to distinguish the various styles through analysis of rhythmic, melodic, harmonic and instrumentational differences.
Prerequisite(s): MUSA 306 or permission of the instructor.
515. Chamber Music Literature (3).

A survey of selected chamber music from the beginning through the present day. Includes a study of formal elements and aural recognition of representative works. Prerequisite(s): MUSA 306 or permission of instructor.

## 516. Symphonic Literature (3).

An historical and chronological survey of symphonic literature from the pre-classic to the present, including a study of formal elements and aural recognition of representative works.
Prerequisite(s): MUSA 306 or permission of instructor.
517. Percussion Literature (3).

A survey of percussion literature from its earliest antecedents in military and orchestral music through the major genres of the 20th century, including chamber music, percussion and marimba ensembles, and solo genres for timpani, multiple percussion, and keyboard percussion.
Prerequisite(s): MUST 306 and MUST 212, or permission of the instructor.
Notes: Offered in spring.
518. Wind Literature (3).

A survey of the basic repertory for concert band and wind ensemble from the Renaissance to the present.
Prerequisite(s): MUST 212 and 507, or permission of instructor.
519. Vocal Pedagogy (3:3:0).

An introduction to the basic methodologies used in establishing good vocal technique; an overview of the historical perspectives as well as current vocal science. The course includes actual supervised practical experience.
Prerequisite(s): MUSA 112D, or permission of the instructor.
Notes: Offered in the fall and spring.
520. Piano Pedagogy (3).

Designed for prospective piano teachers. A survey of materials, educational principles and methods of teaching piano for individual and group lessons.
521. Composition for Music Education (2:2:1).

A course focusing on compositional processes from the 16th-century to the present. Extensive work in the MIDI/ computer music lab included.
Prerequisite(s): MUST 212 or permission of instructor.
Notes: Offered in fall and spring.
523. Accompanying (1:1:0.5).

Study of skills, sightreading, and style required of accompanists. At least one song cycle or one instrumental sonata will be required.
Prerequisite(s): Permission of instructor.
531. Computer Music Technology I (3).

An introductory course to microcomputers and MIDI (Musical Instrument Digital Interface) hardware for the purpose of musical creativity.
Prerequisite(s): MUST 212 or permission of instructor.
532. Computer Music Technology II (3).

A continuation of the skills acquired in MUST 531 with more advanced practical applications.
Prerequisite(s): MUST 531 or permission of instructor.
535. Diction:English/Italian/Latin (1:2:0).

Principles and practices of English, Italian, and Latin diction for singers.
Prerequisite(s): MUSA 112D, or permission of the instructor.

## MUSIC/MUSIC APPLIED

536. Diction:French/German (1:2:0).

Principles and practices of French and German diction for singers.
Prerequisite(s): MUSA 112D, or permission of the instruc-

## tor.

Notes: Offered in the spring.
551-559. Special Topics in Music (1) (2) (3).
Prerequisite(s): Permission of chair, Department of Music. Notes: Offered as needed.

## 561. Medieval/Renaissance Music (3).

An advanced study of the music of the Western European tradition from 600-1600. Includes history, genre studies, literature, analysis of scores and extensive listening.
Prerequisite(s): MUST 306 or permission of instructor.

## 562. Baroque Period Music (3).

An advanced study of the music of the Western European tradition from 1600-1750. Includes history, genre studies, literature, analysis of scores and extensive listening. Prerequisite(s): MUST 306 or permission of instructor.

## 563. Classic Period Music (3).

An advanced study of the music of the Western European tradition from 1750-1820. Includes history, genre studies, literature, analysis of scores and extensive listening. Prerequisite(s): MUST 306 or permission of instructor.

## 564. Romantic Period Music (3).

An advanced study of the music of the Western European tradition from 1820-1900. Includes history, genre studies, literature, analysis of scores and extensive listening.
Prerequisite(s): MUST 306 or permission of instructor.
590. Principles of Teaching Music: Elementary (3). A methods course that addresses specific instructional needs and techniques for teaching general music in the elementary school.
Prerequisite(s): Admission to Teacher Education Program; MUST 212 and 317.
Notes: Offered in fall and spring.
591. Principles of Teaching Music: Secondary (3).

A methods course that addresses specific instructional needs and techniques for teaching general music in the secondary school.
Prerequisite(s): Admission to Teacher Education Program; MUST 590.
Corequisite(s): EDUC 390.
Notes: Offered in fall.
592. Field Experience in Teaching Music (1:0:8). Laboratory experience equivalent to 28 half-days designed to lead music students through an exploration and examination of various research-based programs of instructional planning, methodology, classroom management, and evaluation of teaching and learning. Prerequisite(s): MUST 590.
Corequisite(s): MUST 591 and EDUC 390.
Notes: Offered in the fall.

## Music Applied (MUSA)

Applied Music Courses (1,2,3).
Prerequisite: Completion of undergraduate entrance audition for music majors and minors. All students enrolled in applied music must attend the weekly noon recital and weekly repertory class during the fall and spring semesters.

The following numbers are used for all major instruments and voice. All applied music is assigned through the Chair of the Department of Music. 111,112,211,212,311,312,411,412*

* May be repeated for additional credit.

Lab Fees for Applied Music courses are assessed as follows:
One half-hour lesson (BA and BME majors) \$100
One hour lesson (BM majors) \$150
One hour optional lesson for BA and BME students \$275
Music majors who study a secondary instrument register for
MUSA 110 with the appropriate suffix. Non-majors who participate in ensembles may be permitted to register for MUSA 101 with the appropriate suffix, if space is available.

Alphabetic suffixes for Applied Music Courses:

| A. Piano | N. Oboe |
| :--- | :--- |
| B. Organ | P. Piccolo |
| C. Harpsichord | Q. Clarinet |
| D. Voice | R. Bassoon |
| E. Violin | S. Saxophone |
| F. Viola | T. Trumpet |
| G. Cello | U. Trombone |
| J. String Bass | V. Horn |
| K. Guitar | W. Euphonium |
| L. Electric Bass | Y. Tuba |
| M. Flute | Z. Percussion |

Music Ensembles. Music Ensembles are open to all Winthrop University students, regardless of major. Auditions, where required, are scheduled during each registration period.
Ensembles may be repeated for credit.

## 151. Winthrop Glee Club (1:3).

A large, mixed ensemble which can also function as a Men's Glee Club and Women's Glee Club.
Prerequisite(s): Permission of the instructor is required even though there is no audition.
Notes: Offered in fall and spring.
152. Winthrop Chorale (1:4).

A 40-voice choir that tours throughout the Southeast.
Two major concerts each year.
Notes: Auditions are held during Orientations and registrations. Offered in fall and spring.

## 153. Jazz Voices (1:3).

Vocal jazz ensemble of 12 singers performing historic jazz and contemporary arrangements.
Notes: Audition required. Offered in fall and spring.
154. Chamber Singers (1:2).

A small vocal ensemble performing music drawn from five centuries, including Renaissance madrigals, Baroque cantatas, Classical church music, 19th-century partsongs,
and contemporary music.
Prerequisite(s): Audition required.
Notes: Offered in fall and spring.
156. Chamber Wind Ensemble (1:3:0).

A select wind ensemble performing the standard repertory for wind and percussion band including repertory from the 20th century.
Prerequisite(s): Audition Required.
Notes: Offered in the fall and spring.

## 157. Symphonic Band (1:4).

A large wind and percussion ensemble that performs at least two formal concerts per year.
Prerequisite(s): Permission of the instructor is required.
Notes: Offered in fall and spring.

## 158. Wind Ensemble (1:2).

A select ensemble of wind and percussion instruments performing primarily new and demanding works for the medium.
Prerequisite(s): Audition required.
Notes: Offered in fall and spring.
159. Jazz Ensemble (1:3).

The jazz repertoire ensemble for large jazz bands.
Prerequisite(s): Audition required.
Notes: Offered in fall and spring.
160. String Ensemble (1:2).

An ensemble formed from available string players during
any given semester. Practice outside the designated
coaching sessions is required.
Prerequisite(s): Audition required.
161. Rock Hill Chamber Orchestra (1:3).

Performs chamber works for strings and other instruments.
Prerequisite(s): Audition required.
162. Jazz Combos (1).

Small group jazz setting of acoustic and electric instruments concentrating on the study and performance of improvisation in contemporary jazz and popular musical styles.
Prerequisite(s): Audition required.
Notes: Offered in fall and spring.
163. Percussion Ensemble (1:3).

A full percussion ensemble performing all styles of percussion literature from the standard repertoire and from other cultures.
Notes: Offered in fall and spring.
164. Flute Choir (1:2).

A full flute choir formed from available players during any given semester. Practice outside the designated coaching sessions is required.
Prerequisite(s): Audition required.

## 165. Brass Ensemble (1:2).

A full brass ensemble formed from available players during any given semester. Practice outside the designated
coaching sessions is required.
Prerequisite(s): Audition required.
166. Chamber Ensemble: Vocal (1:2).

Various small vocal ensembles formed from available singers during any given semester. Practice outside the designated coaching sessions is required.
Prerequisite(s): Audition required.
167. Chamber Ensemble (1:0:1).

Various chamber ensembles formed from strings, winds, percussion, guitar and keyboards during any given semester.
Prerequisite(s): Permission of the Chair.
168. Guitar Ensemble (1:2).

Various small guitar ensembles formed from available guitarists during any given semester. Practice outside the designated coaching sessions is required.
Prerequisite(s): Audition is required.
Notes: Offered in fall and spring.
169. Collegium Musicum (1:2).

A chamber ensemble formed from available players during any given semester performing a variety of early music on original instruments. Practice outside the designated coaching sessions is required.
Prerequisite(s): Audition required.
Notes: Offered in the fall.
171-172. Voice Class (1:2) (1:2).
An introduction to the fundamentals of singing with practical application of principles. Open to nonmajors.

181-182. Piano Class (1:2) (1:2).
Beginning courses in basic keyboard skills including reading from notation, scales, modes, improvisation, and harmonization.
Notes: Open to non-majors if space is available. Offered in fall and spring.
185. Guitar Class (1:2).

An introduction to the fundamentals of playing the guitar with practical application of principles.

271-272. Voice Class (1:2) (1:2).
Continued study of vocal fundamentals with emphasis on practical application.
Prerequisite(s): MUSA 172 or permission of the instructor.
281-282. Piano Class (1:2) (1:2).
A continuation of MUSA 181-182 but with more emphasis on piano literature, sightreading, harmonization and transposition.
Prerequisite(s): MUSA 182 or permission of the instructor. Notes: Offered in fall and spring.
291. Woodwind Methods (1:2).

Basic techniques of playing and teaching woodwind instruments.
293. String Methods (1:2).

Basic techniques of playing and teaching stringed instru-
ments.

## 295. Brass Methods (1:2).

Basic techniques of playing and teaching brass instruments.

## 297. Percussion Methods (1:2).

Basic techniques of playing and teaching percussion instruments.

## 331. Composition I (2-1).

A detailed study of composition designed to develop a basic skill or craft in the manipulation of musical materi-
als. Extensive outside preparation.
Prerequisite(s): MUST 211 or consent of the instructor.

## 332. Composition II (2-1).

A continuation of the development of skills acquired in MUSA 331.
Prerequisite(s): MUSA 331.

## 370. Opera Production (1).

Participation and experience in an opera production. The work performed will vary with the semester.
Prerequisite(s): MUST 321 and audition or permission of the instructor.

## 431. Composition III (2-1).

A continuation of the development of skills acquired in MUSA 331-332.
Prerequisite(s): MUSA 332.

## 432. Composition IV (2-1).

A continuation of the development of skills acquired in MUSA 431.
Prerequisite(s): MUSA 431.

## 511. Score Reading (2-1).

Detailed study and analysis of musical scores to facilitate reducing scores to piano accompaniment.
Prerequisite(s): MUSA 282, MUST 212 and 507, or permission of the instructor.
Notes: May be re-taken for additional credit.

## Philosophy (PHIL)

201. Introduction to Basic Issues in Philosophy (3). Overview of the major areas of philosophic inquiry. Notes: Offered every semester.

## 220. Logic and Language (3).

Introduction to classical and contemporary logic with special emphasis upon the nature of language used in reasoning and argumentation.
Notes: Offered every semester.

## 225. Symbolic Logic (3).

An introduction to modern symbolic logic, including symbolization, truth-value analysis, semantic and natural deduction for propositional and quantificational logic. Appropriate for students in computer science, sciences and mathematics.

Notes: Offered variable times.
230. Introduction to Ethics (3).

Begins with an introduction to several of the primary theories in ethics, like utilitarianism, egoism, deontology, etc. On this foundation, the course goes on to consider topics in applied ethics, such as abortion, human cloning, animal rights, drug legalization, world hunger, capital punishment, just war theory , etc.
Notes: Offered variable times.

## 300. The History of Philosophy from Plato to the

 Modern Age (3).Study of the major Western philosophers.
Notes: Offered in spring.
303. Existentialism (3).

Introduction to the thought of the major existentialist thinkers, including Kierkegaard, Heidegger, Nietzsche, Tillich, Sartre and Camus.
Notes: Offered fall of alternate years.
305. American Philosophy (3).

Historical introduction to major United States philosophers from the eighteenth century to the present.
Notes: Offered variable times.

## 310. Theories of Knowledge (3).

An in depth survey of theories of knowledge. We consider the problem of skepticism and try to say what conditions must be met for one to know something. We explore, in detail, several contemporary approaches to justifying our knowledge of the external world.
Prerequisite(s): PHIL 201 or PHIL 300 or permission of instructor.
Notes: Offered in spring of alternate years.
315. Historical Developments in Moral Reasoning (3). An in depth survey of the major developments in moral theories throughout the history of Western Civilization. We will investigate what moral philosophers have said about the rational development of a consistent and correct ideal of life, search for basic moral principles, and attempt to solve problems concerning the good and the bad, the right and the wrong.

## 320. Professional Ethics (3).

An examination of specialized standards of conduct and their justification as these standards relate to the traditional professions and to business.
Notes: Offered variable times.
340. Environmental Ethics (3).

Exploration of how we ought to live on earth, including our responsibilities to nonhumans and the planet. Although oriented toward questions of ethics, the course also addresses environmental policy issues by critically evaluating the moral presuppositions underlying policy recommendations.
Notes: Offered in fall of alternate years.
350. Special Topics in Philosophy (3).

In-depth consideration of a specific topic of particular
concern in philosophy.
Prerequisite(s): PHIL 201 or PHIL 300 or permission of the instructor.
Notes: This course may be offered under various topics. May be repeated for credit.

## 370. Philosophy of Law (3).

This course is highly recommended for pre-law students as well as those with an interest in public policy issues.
We will relate traditional themes of legal/philosophy to the live concerns of modern society, covering a series of selections that raise the most important issues. The philosophical issues covered recur in specific problems about liberty, justice, responsibility, and punishment. Prerequisite(s): PHIL201 or PHIL 300 or permission of instructor.
Notes: This course is offered fall, spring, and summer.

## 390. Philosophy of Religion (3).

An explication and analysis of the major philosophical issues involved in religious claims and commitments.
Prerequisite(s): 3 hours of Philosophy or consent of the instructor.
Notes: Offered variable times.
450. Honors: Selected Topics in Philosophy (3).

An in-depth independent inquiry into a selected topic in philosophy.
Prerequisite(s): Permission of the Chair.
Notes: Offered variable times.
495. Methods and Research Seminar in Philosophy (3). This course is an advanced research seminar for students who have already developed a solid background in their philosophy studies. The course emphasizes a detailed examination of selected topics and issues in philosophy. The course will include the assessment of core skills and knowledge from the major, and will improve writing skills as students develop their own research projects. Prerequisite(s): PHIL 201, PHIL 300, RELG 201, RELG 300, 6 additional hours in PHIL or RELG.
Notes: Intensive writing course. Offered in spring.
550. Special Topics in Philosophy (3).

An in-depth consideration of a specific topic of concern in philosophy. The course may be offered under various topics.
Prerequisite(s): Permission of the instructor.
Notes: Offered in fall, spring and summer. May be retaken for credit under different topics.

## Physical Education (PHED)

## 106. Tai Chi (1).

This course will teach the fundamentals of the ancient Chinese martial art of Tai Chi Chuan including basic posture, 12 and 72 movement forms, and push hands. The type of Tai Chi Gua, and Xing Yi, and has roots in the art of Chi Gong. It's natural fluid stances make it an ideal exercise system for those who desire a low-impact and movement in order to encourage balance and focus as well as an understanding of the movement of energy
within the body and sense of the body's relationship with the space around it.
Notes: Lab Fee: $\$ 20$. Offered in the fall and spring.
110. Taekwando (1).

This course will provide fundamental skill development in the Korean martial art of Taekwando. The focus is on the self-development through self-defense skills.
Notes: Lab Fee: $\$ 20$. Offered in the fall and spring.

## 111. Orientation to Athletic Training (1).

This course is designed for students interested in athletic training careers. Content includes history and requirements for certification and roles of trainees.
Notes: Lab Fee: $\$ 20$. Offered in fall.

## 112. Movement Concepts (2:1:2).

This course will allow students to apply the concepts of space awareness, effort, and relationships to human movement. Emphasis will be placed on using the three concepts to analyze both skilled and unskilled movements, explore the relationship of concepts to various skill themes, and apply the concepts in order to plan and implement developmentally appropriate instruction in physical education. A two hour teaching laboratory is part of the course.
Notes: Lab Fee: $\$ 20$. Offered in fall.

## 113. Disc Games (1).

This course will provide the student with an overview of Ultimate Disc and Disc Golf. Rules, etiquette, and participation in Ultimate Disc and Disc Golf will be the focus of this course.
Notes: Lab Fee: $\$ 20$. Offered in the fall and spring.

## 114. Mountain Biking (1).

This course will provide the student with an overview of mountain biking, rules of the trail and road, safety, riding techniques, clothing, equipment, and basic bike maintenance.
Notes: Lab Fee: $\$ 20$. Offered in the fall and spring.

## 115. Self Defense (1).

This course will allow students to enhance their overall wellness through the study of self-defense. The course is designed to teach students the fundamental self-defense skills through active participation.
Notes: Lab Fee: $\$ 20$. Offered in the fall and spring.
150. Skill Themes, Concepts and the National Standards for the Physical Educator (2).
PHED 150 is designed to provide an understanding of the skill theme approach to children's physical education curriculum, based on skill themes, concepts and generic levels of skill proficiency. Emphasis will be placed on developing an applied understanding of both "how" and
"what" to teach in elementary physical education that will help children to begin to acquire the fundamental competencies needed to successfully participate in physical activities they will pursue as adolescents and adults. Notes: Offered in spring.

## PHYSICAL EDUCATION

202. Concepts of Fitness and Exercise (2).

This course consists of units of instruction in cardiorespiratory exercise, muscular fitness and flexibility, nutrition and body composition, and exercise safety. Class practicums will involve opportunities to learn and participate in a variety of fitness related activities and assessment procedures.
Notes: Lab Fee: $\$ 20$. Offered in fall.

## 203. Developmental Movement for Young Children (3:2:1).

This course focuses on movement education as a tool for enhancing cognitive, physical, and social development for the young child (ages 3-8). Emphasis will be on acquiring a basic understanding of developmentally appropriate motor programming for young children and teaching strategies which enable young learners to develop fundamental movement concepts, skill themes, and fine motor skills. Attention will also be given to the importance of integrating movement across the curriculum to enhance cognitive and social development.

## 204. Snow Skiing (1:2).

Notes: Additional Fee required. A grade of $S$ or $U$ is recorded for this course. Offered during winter break and spring.

## 205. The Martial Arts (1:2).

Physical fitness and self-defense are the primary emphasis within the traditional framework of discipline, endurance and self-control unique to the martial arts.
Notes: Lab Fee: $\$ 20$. Offered in the fall and spring. May be repeated for credit.

## 206. Outdoor Education: Hiking, Backpacking, Rafting

 (1:2).Notes: Additional Fee: $\$ 70$. A grade of S or U is recorded. Offered in spring.

## 207. Intermediate Snow Skiing (1:2).

Notes: Additional fee required. A grade of $S$ or $U$ is recorded. Offered during winter break and spring.

## 211. Clinical Experiences in Athletic Training I (1).

This course provides opportunities for application of skills in a clinical setting. All experiences are obtained under the direct supervision on an ATC. Emphasis will be working on assessment and recognition of lower extremity injuries and skills appropriate to caring for such injuries. He/she will be involved with both male and female athletes in this experience.
Prerequisite(s): PHED212. Admission to Athletic Training Program.
Notes: Lab Fee: $\$ 20$. Offered in the fall and spring.

## 212. Foundations of Athletic Training (3:2:1).

Lecture/demonstration experiences designed to expose students to techniques and knowledge required of athletic trainers. Topics covered include injury classification and terminology, injury prevention, the healing process, basic injury descriptions, and initial management of injuries. Prerequisite(s): PHED 111.

Corequisite(s): PHED 212L.
Notes: Offered in spring.
212L. Foundations of Athletic Training Lab (1).
Guided laboratory and clinical experience in athletic training. Development of skills in taping and wrapping techniques for management of athletic injuries. Development of skills in protective equipment fitting. Corequisite(s): PHED 212.
Notes: Lab Fee: $\$ 60$. Offered in spring.

## 221. Beginner's Swimming (1:2).

Basic safety skills and swimming stroke skills are taught in accordance with the specifications of the American Red Cross courses.
Notes: Lab Fee: $\$ 20$. Offered in the fall and spring.
223. Group Facilitation and Leadership (2).

This course is designed to allow students the opportunity to practice group facilitation techniques and leadership skills. Students will be both participants and leaders on the low and high ropes courses while practicing their group facilitation skills. The experiential learning cycle and the cycle's impact on learning will be an important focus of the course. Students will have the opportunity to implement both basic and advanced debriefing and facilitation techniques.
Notes: Offered in fall.

## 224. Lifeguard Training (2:2:1).

This course is designed to meet the American Red Cross certification requirements for Lifeguard Training.
Prerequisite(s): Swimming endurance, knowledge of basic strokes, standing dive, treading water, surface diving and underwater swimming.
Notes: Lab Fee: $\$ 20$. Offered in spring.
225. Water Safety Instructor (2:3).

Theory and practice of teaching swimming and water safety skills to all ages, infant through adult. This course meets the certification requirements of the Water Safety Instructor course of the American National Red Cross. Prerequisite(s): Pre-test basic swimming strokes for speed and accuracy, age 17 or older. Current instructor authorization in Health Instructor Candidate Training Course (TCT).
Notes: Lab Fee: $\$ 20$. Offered in the fall.
226. Scuba Diving (1:1:2).

This course is designed to provide the average, or above average, swimmer with an opportunity to become a certified PADI scuba diver. There is an extra fee above the regular registration.
Notes: Additional Fee: $\$ 220$. A grad of $S$ or $U$ is recorded. Offered in fall and spri g.
227. Lifeguard Instructor \& Aquatic Management (1:2). The purpose of the course is to train students to teach the American Red Cross Basic and Emergency Water Safety, Lifeguard Training and Lifeguard Training Review courses. It will also equip students to manage various aquatic facilities.

Prerequisite(s): PHED 224 or equivalent.
Notes: Lab Fee: $\$ 20$. Offered in the summer.

## 228. Advanced Scuba (1-2).

This course is a continuation of PHED 226 - Scuba Diving. The successful student will receive international diver certification beyond the PHED 226 level.
Prerequisite(s): PHED 226.
Notes: Additional Fee: $\$ 145$. A grade of $S$ or $U$ is recorded. Offered in fall and spri ng.
229. Scuba Diver Rescue (1-2).

Students will learn how to effect above and underwater rescue of a SCUBA diver. The successful candidate will receive international certification as a SCUBA diver rescuer.
Prerequisite(s): PHED 228.
Notes: Additional Fee: $\$ 195$. A grade of S or U is recorded. Offered in fall and spring.
230. Beginning Fencing (1:2).

Notes: Lab Fee: $\$ 20$. Offered in the fall.

## 231. Fitness for Life (2).

A participation/theory course in which aspects of fitness and activity are studied.
233. Badminton (1:2).

Notes: Lab Fee: $\$ 20$. Offered in fall and spring.

## 235. Beginner's Tennis (1:2).

Notes: Lab Fee: $\$ 20$. Offered in fall and spring.
236. Intermediate Tennis (1:2).

This course is designed to refine and improve basic strokes. Advanced strokes and techniques are incorporated. Students are given opportunity to learn game strategy and tactics through tournament play.
Notes: Lab Fee: $\$ 20$. Offered in the fall and spring.
237. Golf (1:2).

Notes: Lab Fee: $\$ 20$. Offered in fall and spring.

## 238. Intermediate Golf (1:2).

Designed to reinforce previously learned skills and to add other skills with supplementary knowledge for game play and appreciation.
Notes: Lab Fee: $\$ 20$. Offered in the fall and spring.

## 242. Motor Learning and Control (3:3:0).

This course is designed to present information concerning fundamental concepts in motor learning and control. Topics include stages of skill acquisition, neurological bases of movement, motor integration, feedback, motor memory, conditions of practice, attention, perception, and the scientific method. Students will apply theoretical concepts to human movement.
Notes: Offered in spring.

## 245. Water Aerobics (1:2).

A course designed to increase cardiovascular fitness through the use of locomotor movements and callisthenic type exercise in the water. No swimming skills are
needed for success in this course.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.
246. Aerobic Walking (1:2).

This course is designed to increase cardiovascular fitness through brisk walking. It will contain a core of knowledge concerning conditioning, self assessment, injury prevention, stress reduction, and other related health topics for optimum wellness outcomes.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.
253. Current Activities: Basic Training (1).

Basic training is a participation course designed to increase strength, definition and cardio-respiratory fitness through the use of light hand weights in a continuous exercise routine to music.
Notes: Lab Fee: $\$ 20$. Offered in the fall and spring.
254. Volleyball (1:2).

Notes: Lab Fee: $\$ 20$. Offered in fall and spring.
256. Intermediate Basketball (1:2).

Notes: Lab Fee: $\$ 20$. Offered in fall.
257. Current Activities: Cardio Kick (1:0:2).

Cardio Kick is a trendy, upbeat cardiovascular training that combines martial arts and "Boot Camp" techniques.
The class will begin with a focus on the use of STEPS then will add the Martial Arts elements, ending with high intensity "Boot Camp", plyometrics system. No prior experience necessary.
Notes: Lab Fee: $\$ 20$. Offered in the fall and spring.
261. Movement Activities for Teachers of Children Ages 6-12 (1).
A participation course of movement and fitness activities based on movement concepts and skill themes. This course is designed to provide elementary education teachers with a fundamental understanding of fitness concepts and developmentally appropriate movement lessons for children 6-12 years of age.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.

## 263. Handball and Racquetball (1:2).

Notes: Not offered this academic year.

## 264. Fitness/Wellness Careers Laboratory (1).

The course will provide opportunities for students to have observation/participation experiences in fitness/wellness settings. Each student will participate in three different areas related to the fitness/wellness cognates. Course will include seminars with instructor, other students, and professionals from different areas in which observation/ participation experiences are scheduled.
Prerequisite(s): PHED 101.
Notes: Offered in fall and spring.
265. Current Activities: Aerobic Dance (1:2).

A fitness-oriented course using continuous dance routines with music.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.

PHYSICAL EDUCATION
266. Yoga (1).

A participation course focused on enhanced flexibility, posture, and breath control. It includes a gentle but firm approach to discipline through the fundamental principles of this ancient practice.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.

## 267. Weight Training (1:2).

The study and practice of weight training activities.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.
269. Track and Field (1:2).

Notes: Not offered this academic year.

## 270. Intermediate Badminton (1:2).

Prerequisite(s): PHED 233 or permission of the instructor. Notes: Lab Fee: \$20. Offered in spring.

## 282. Beginning Rock Climbing (1:0:2).

This course is designed to allow the student an opportunity to learn and experience current techniques, safety, equipment, and fitness of basic rock climbing.
Notes: Additional Fee: $\$ 40$. Offered in fall and spring.
290. Assessment in Physical Education (2:1:2).

This course will provide the student with the basic knowledge and skills necessary to assessment k-12 student performance in physical education. Emphasis is given to analyzing skills, selecting \& administering traditional assessment instruments, and developing authentic assessment tools. Participants will be working with k-12 students during the class.
Notes: Offered in spring.

## 303. Teaching Aerobic Activity (1).

This course is designed to increase knowledge and instructional skills in various forms of aerobic exercise such as aerobic dance, water aerobics, and aerobic walking. The course will also investigate certification programs and requirements for individuals to lead and teach aerobic exercise classes.
Prerequisite(s): Physical Education majors or permission of the chair.
Notes: Offered in the fall and spring.
307. Outdoor Education: Theory and Practice (2:1:2). This course is designed to expand the student's knowledge of outdoor recreation. Introduction and participation in outdoor pursuits such as backpacking, rock climbing, kayaking, rafting, orienteering, cycling and ropes course are included. Field experiences are required. Notes: Additional Fee: $\$ 70$. Offered on demand.
311. Clinical Experiences in Athletic Training II (1:0:3). This course provides opportunities for application of skills in a clinical setting. All experiences are obtained under the direct supervision on an ATC. Emphasis will be working on assessment and recognition of upper extremity injuries and skills appropriate to caring for such injuries. The student will also apply the knowledge gained with therapeutic modalities to the care of male and female athletes.
Prerequisite(s): PHED 211.

Notes: Lab Fee: $\$ 20$. Offered in fall.
320. Weight Control Through Diet and Exercise (2:1:2). Lecture and laboratory designed to demonstrate principles of nutrition and exercise related to the control of body weight. (Same as NUTR 320).
Notes: Offered in spring.

## 324. Dive Leader (1-2).

Students will learn to plan safe and successful diving activities and how to supervise students in training. Students will receive international certification that allows them to assist with and supervise SCUBA activities.
Prerequisite(s): PHED 229.
Notes: Additional Fee: \$400. Offered on demand.

## 325. Sport Governance and Ethics (3).

This course provides an overview of the major amateur and professional sports governance structures and the ethical principles that guide these organizations. Ethics applied to sport business and ethical decision-making will also be a focus of the course. Course must be completed with a C or better.
Prerequisite(s): SPMA major.
Notes: Offered in the spring.
327. Scientific Foundations of Sport (3).

The study and practical application of physiological, biomechanical and motor learning principles as they relate to athletic performance.
Prerequisite(s): BIOL 101.
Notes: This course is restricted to SPMA majors and coaching minors. Offered in spring.

## 330. Physical Education \& Recreation for Children with Special Needs (3).

This course is designed to acquaint students with methods, techniques, and activities to be used in assessment of abilities and teaching physical education for children with special needs.
Prerequisite(s): Sophomore level or higher.
Notes: Offered in fall and spring.

## 338. Assessment of Athletic Injuries and Illnesses: Lower Extremity (3:2:1).

Lecture/demonstration experiences designed to expose students to techniques and knowledge required of athletic trainers. Topics covered include lower extremity injury evaluation, training room operations and procedures, and initial management of injuries.
Prerequisite(s): BIOL 307.
Corequisite(s): PHED 338L.
Notes: Offered in fall
338L. Assessment of Athletic Injuries and Illnesses: Lower Extremity \& Lab (1).
Guided laboratory and clinical experience in athletic training. Observation and practice of skills gained in lecture, including the evaluation of lower upper extremity injuries. Actual practice in dealing with athletic injuries, including attending athletic events under staff supervision.
Corequisite(s): PHED 338.

Notes: Offered in fall.

## 339. Assessment of Athletic Injuries and Illnesses:

## Upper Extremity (2).

Lecture/demonstration experiences designed to expose students to techniques and knowledge required of athletic trainers. Topics covered include upper extremity and cervical spine injury evaluation, training room operations and procedures, and initial management of injuries.
Prerequisite(s): BIOL 306.
Corequisite(s): PHED 339L.
Notes: Offered in spring.

## 339L. Assessment of Athletic Injuries and Illnesses:

 Upper Extremity Lab (1).Guided laboratory and clinical experience in athletic training. Observation and practice of skills gained in lecture, including the evaluation of upper extremity and cervical spine injuries. Actual practice in dealing with athletic injuries, including attending athletic events under staff supervision.
Corequisite(s): PHED 339.
Notes: Offered in spring.
348. Physical Education Curriculum \& Methodology for the Young Children in Grades K-5 (3:2:4).
This course involves the study and application of theories of development and instruction, with particular attention to the goals and values of a well-planned and executed physical education program for children in grades K-5. Prerequisite(s): Admission to Teacher Education Program. Notes: Offered in fall.

## 349. Physical Education Curriculum \& Methodology for

 the Intermediate or Middle School (2:2:2).Study and application of theories of adolescent development and physical education planning and instruction, with particular attention to the goals and values of a wellplanned and executed physical education program at the intermediate or middle school level.
Prerequisite(s): Admission to Teacher Education Program.
Corequisite(s): PHED 369.
Notes: Offered in spring.
350. Adapted Physical Activity and Sport (3:3:0).

This is an introductory course designed to provide the student with the knowledge and skill required to meet the professional and legal mandates pertaining to physical activity for individuals with disabilities. On-hand experience with individuals who have disabilities is a part of the course work. In addition, students are required to complete 10 hours of service working with individuals who have disabilities in the Rock Hill area.
Notes: Offered in fall and spring.
361. First Aid and Cardiopulmonary Resuscitation (1). Meets requirements for American Red Cross Certification(s) in the areas of Standard First Aid, Adult, Child and Infant CPR. Safety practices and emergency procedures are included.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.
363. Medical Aspects of Sport and Related Injuries (3:3:0).
A review of selected medical aspects of sport taught by guest medical experts from community hospitals and private practice.
Prerequisite(s): PHED 211, 212, 311.
Notes: Offered in fall.

## 369. Instructional Laboratory (1).

This course is designed to provide the preservice physical education teacher with the practical experiences required to fulfill the professional responsibilities of a successful intermediate or middle school physical educator.
Corequisite(s): PHED 349.
Notes: Offered in spring.
379. Teach Advanced Based Experiential Education (3). This course introduces experiential education techniques as they apply to a ropes course and to outdoor setting. Topics will include the experiential learning cycle, feedback, support, processing, safety techniques and effective communication.
Notes: Lab Fee: $\$ 20$. Offered in fall.
380. History of Sport (3).

This course provides an overview of sport in the United States with primary focus on the nineteenth century. Sport will be examined as both an outgrowth of education and as an economic enterprise. Selected sports will be studied from the standpoint of their development, influential people and governance. The roles of women and minorities in sport will be studied along with the factors in influencing their participation.
Prerequisite(s): PHED 101 or SPMA 101 with a grade of C or better.
Notes: Offered in spring.
381. Philosophy and Principles of Human Movement (3). A study of the foundations, objectives and societal relationships of human movement as applied to fields of physical education.
Prerequisite(s): Junior status, grade of C or better in WRIT 101 or 102.
Notes: Intensive Writing course. Restricted to PHED and SPMA majors. Offered in fall and spring.
382. Kinesiology (3:2:2).

The study of human movement.
Prerequisite(s): BIOL 307.
Notes: Offered in fall and spring and every even summer.

## 384. Exercise Physiology (3:2).

This course will examine how the human body, from a functional and health-related standpoint, responds, adjusts, and adapts to acute exercise and chronic training. Basic skills of imparting health-related fitness information will also be presented.
Corequisite(s): BIOL 307.
Notes: Offered in fall and spring and every odd summer.
391. Principles of Teaching Physical Education, Curriculum \& Methodology for Grades 6-12 (3).
The content is specific to the students' subject matter field

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and addresses specific instructional needs and techniques. Specifically, this course focuses on development and delivery of physical education programs designed for students in grades 6-12.
Prerequisite(s): Admittance to Teacher Education.
Notes: Offered in spring.

## 393. Practicum in Coaching (1:1:1).

This course is designed to provide field experiences to the junior and senior coaching minor student. The 40 hour experience will be in a coaching setting with a focus on preparing and supervising athletes in all areas of sport competition.
Prerequisite(s): Nine hours completed in the coaching minor to include PHED 361 or PHED 561 and permission from the coaching minor coordinator.
Notes: A grade of $S$ or $U$ is recorded. Offered in fall and spring.

## 394. Field Experience in Teaching Physical Education (1:0:8).

Students will spend 8 hours per week in the classroom under the supervision of a physical education professor and will work with a mentor teacher, in preparation for the final internship experience.
Prerequisite(s): Admission to Teacher Education Program and EDUC 310.
Corequisite(s): PHED 391 and EDUC 390.
Notes: A grade of S or U is recorded. Offered in fall.

## 395. Fitness/Wellness Program Application (1).

This course is designed to give appropriate field experiences to the junior Physical Education major in the fitness/wellness option. The 30 hour experience will occur in the cognate area and will require the student to demonstrate planning and instructional skills in a fitness/ wellness setting.
Prerequisite(s): PHED 264 or permission of instructor. Notes: Offered in the fall and spring.
408. Special Problems in Physical Education (1).

Independent study in Physical Education and related areas.
Notes: Offered as needed.

## 450. Honors: Selected Topics in Physical Education and

 Allied Fields (3).Prerequisite(s): Seventeen hours in physical education and permission of the Department Chair.
Notes: Offered on demand.

## 460. Special Topics in Physical Education: Coaching Basketball (1).

This course is designed to allow the prospective coach an opportunity to review basic skills and strategies in coaching basketball.
Prerequisite(s): Experience in basketball or permission of instructor.

## 462. Special Topics in Physical Education: Coaching Volleyball (1).

This course is designed to allow the coach, or prospective coach, an opportunity to review basic skills and strategies,
and to investigate intermediate and advanced volleyball techniques and strategies.
Prerequisite(s): Experience in volleyball or permission of instructor.

## 464. Special Topics in Physical Education: Coaching Baseball/Softball (1).

This course is designed to allow the prospective coach to review the current theories, trends, and training techniques in the teaching and coaching of baseball and fastpitch softball.
Prerequisite(s): Experience in baseball or softball or permission of instructor.
465. Strength and Conditoining Certification (2).

This course is designed to prepare students for the National Strength and Conditioning Certification examination. Students will be planning and implementing weight training and conditioning programs based on individual assessments. In addition, students will be reviewing current techniques, theories, and practices of conditioning and strength training for various sports.
Prerequisite(s): PHED 267.
Notes: Offered in spring.

## 466. Special Topics in Physical Education: Coaching

 Soccer (1).This course is designed to allow the prospective coach to review the current skills, strategies and training techniques on coaching soccer.
Prerequisite(s): Sophomore status; Experience in soccer or permission of instructor.
476. Facilities Management and Design (3).

The role and responsibilities of facility management and design in sport. Emphasis will be placed on fiscal management, facilities operation, risk management and the design process.
Notes: Restricted to SPMA and PHED majors or permission of chair. Offered in fall and spring.
480. Exercise Testing and Prescription (3:2:2).

This course will examine the appraisal of health-related fitness and exercise programming for individuals who are healthy, at risk, injured and unhealthy individuals. Prerequisite(s): PHED 382 Kinesiology and PHED 384 Exercise Physiology, and BIOL 307 Human Anatomy. Notes: Offered in fall and spring.
482. Effective Leadership in Outdoor Education (3). Through this course students will gain skills and knowledge to enable them to become effective leaders in outdoor settings. This information includes program design and trip planning, decision making, emergency procedures, leadership styles, goal setting, facilitation, risk management and ethics.
Prerequisite(s): PHED 307.
495A. Internship: Fitness/Wellness (12).
This internship provides students the opportunity for guided practical experience in a fitness/wellness setting. Students are required to complete a minimumof 520 hours at an approved internship site. Students will complete all
requirements identified in the fitness/wellness internship handbook.
Prerequisite(s): Senior status and completion of BIOL 307 and 308.
Notes: Offered in the fall, spring, and summer.
496A. Seminar in Fitness/Wellness (1:1:0).
The purpose of this course is to provide students the opportunity to discuss issues and express concerns they may have prior to enrolling the internship. A second purpose of the course is to prepare students for successful entry into the fitness/wellness internship required in PHED 495A. Professional preparation, interviewing skills, and career opportunites will all be discussed.
Prerequisite(s): Junior status as a Fitness/Wellness major, grade of C or higher in PHED 101, good academic standing with the university, minimum 2.25 GPA, and approval of the Fitness/Wellness Program coordinator. Corequisite(s): PHED 495A.
Notes: Offered in fall and spring.
496B. Administrative Aspects of Athletic Training (3). The capstone course is a culminating experience for students in the field of athletic training or a related sports medicine area. This course focuses on administration of athletic training programs.
Prerequisite(s): PHED 497, 498, 565.
Corequisite(s): PHED 495.
497. Clinical Experiences in Athletic Training III (1).

This course provides opportunities for application of skills in a clinical setting. All experiences are obtained under the direct supervision of an ATC. Emphasis will be on advanced skills of injury evaluation and development and implementation of treatment protocols for male and female involved in "low risk" sports.
Prerequisite(s): PHED 311, 338 and 339.
Notes: Lab Fee: $\$ 20$. Offered in fall.
498. Clinical Experiences in Athletic Training IV (1).

This course provides opportunities for application of skills in a clinical setting. All experiences are obtained under the direct supervision of an ATC. Emphasis will be on advanced skills of injury rehabilitation and implementation of treatment protocols for male and female in a sports medicine clinic setting.
Prerequisite(s): PHED 497 and 564.
Notes: Lab Fee: $\$ 20$. Offered in spring.
499. Clinical Experiences in Athletic Training V (1). This course provides opportunities for application of skills in a clinical setting. All experiences are obtained under the direct supervision of an ATC. Emphasis will be on advanced skills of injury evaluation and development and implementation of treatment protocols for male and female athletes in a high school athletic training setting. Prerequisite(s): PHED 498 and 565.
Notes: Lab Fee: $\$ 20$. Offered in fall.
All courses in the College of Education numbered above 499 have a prerequisite of junior status or permission of the dean of the College of Education.
500. Clinical Experiences in Athletic Training VI (1).

This course provides opportunities for application of skills in a clinical setting. All experiences are obtained under the direct supervision of an ATC. Emphasis will be on advanced skills of injury evaluation and development and implementation of treatment protocols for male and female athletes involved in "high risk" sports.
Prerequisite(s): PHED 499 and PHED 496B.
Notes: Lab Fee: $\$ 20$. Offered in the spring.
510. Financial Management of Fitness and Interscholastic Athletic Programs (3:3:0).
The purpose of the course is to introduce students to a number of financial and staffing topics that are relevant to the sport industry. Major concepts to be studied will include basic financial concepts, budgeting, revenue streams, current financial issues in sports, staffing, assessment of staff, staffing policy and procedures, and a number of other relevant topics.
Prerequisite(s): PHED or SPMA major. Junior, Senior, or Graduate standing.
Notes: Offered in fall.
512. Seminar on Contemporary Leaders and Organizations in Health, Physical Education and Recreation (2). Study of current issues and contemporary leaders through preliminary study and attendance at the South district or National AAHPERD Convention.
Notes: Offered in spring. May be retaken for additional credit.
515. Computer Utilization in Physical Education (3). This course is designed to familiarize students with computer administrative functions of word processing, data based management and electronic spreadsheet, as well as appropriate computer software in classroom applications.
Prerequisite(s): CSCI 101, EDUC 275 or permission of instructor.
Notes: Offered on demand.

## 525. Risk Management in Physical Activity and Sport

 (3).This course is designed to introduce the student to the legal principles applicable to a variety of sport settings. The topic of tort liability will be explored in depth with special emphasis on the effective managment of risk. Prerequisite(s): Junior status or above as a SPMA or PHED major.
548. Psychology of Sport and Physical Activity (3). An analysis of the psychological factors involved in sport and physical activity with emphasis on performance enhancement.
Prerequisite(s): PSYC 101.
Notes: Offered in the fall and spring.
563. Therapeutic Modalities for Athletic Training (3:2). An introduction to purposes, effects and applications of therapeutic modalities for use in treating athletic injuries. Lecture, demonstration and discussion formats will be included.

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Prerequisite(s): PHED 338.
Corequisite(s): PHED 563L.
Notes: Offered in spring.
563L. Therapeutic Modalities for Athletic Training Lab (1).

Guided laboratory experience in the application of therapeutic modalities.
Corequisite(s): PHED563.
Notes: Offered in the spring.
564. Assessment of Athletic Injuries and Illnesses: Head, Trunk, \& Spine (3:2.1).
Lecture/demonstration experiences designed to expose students to techniques and knowledge required of athletic trainers. Topics covered include head, trunk and spine injury evaluation, training room operations and procedures, and initial management of injuries.
Prerequisite(s): BIOL 307.
Corequisite(s): PHED 564L.
Notes: Offered in fall.
564L. Assessment of Athletic Injuries and Illnesses: Head, Trunk \& Spine Lab (1).
Guided laboratory and clinical experience in athletic training. Observation and practice of skills gained in lecture, including the evaluation of head, trunk and spine injuries. Actual practice in dealing with athletic injuries, inlcuding attending athletic events under staff supervision.
Corequisite(s): PHED 564.
Notes: Offered in the fall.

## 565. Therapeutic Exercise and Rehabilitation for Athletic

 Training (3:2).An introduction to intermediate and advanced techniques in therapeutic exerise and rehabilitation programs for athletic injuries. Lecture, discussion, and demonstration formats will be included.
Prerequisite(s): PHED 338, 339, 564.
Notes: Offered in spring.

## 565L. Therapeutic Exercise and Rehabilitation for

 Athletic Training \& Lab (1).Guided laboratory experience designed to provide competency in the development of reconditioning programs.

## 571. Theory of Coaching (3).

Introduction to the philosophy, principles and techniques of coaching with emphasis on the psychological and sociological processes.
Notes: Offered in spring.

## Physical Science (PHSC)

101. Physical Science (3).

A survey of the basic principles, laws and methodology in Physics and Astronomy.
Notes: Offered in summer.
102. Physical Science (3).

Survey of the basic principles, laws and methodology in Chemistry and Earth Science.
Notes: Offered in summer.

## Physics (PHYS)

101. Everyday Physics (3).

A conceptual introduction to the physics of everyday phenomena primarily intended for non-science majors. Introductory concepts and principles in mechanics, sound, heat, electricity, magnetism, and light will be covered.
Corequisite(s): PHYS 102.
Notes: Offer in the spring and summer.
102. Everyday Physics Laboratory (1:0:3).

An introductory physics laboratory course primarily intended for non-science majors. Experiments will be selected from mechanics, sound, heat, electricity, magnetism, and light.
Corequisite(s): PHYS 101.
Notes: Lab Fee: $\$ 40$.
105. Energy and the Enviroment (3).

The course surveys energy resources and deals with present and possible future energy usage and its effect on the global Environment.

## 201-202. General Physics I (4:3:3).

Basic concepts and principles of physics, including mechanics, heat, sound, electricity, magnetism, and optics. Primarily a course for students in the life and health sciences.
Prerequisite(s): Completion of General Education Quantitative Skills requirement with a grade of $C$ or above.
Notes: Lab Fee: \$40. A student may not receive credit for both PHYS 201 and PHYS 211 and for both PHYS 202 and 212. Offered in fall and summer.
202. General Physics II (4:3:3).

Basic concepts and principles of physics, including mechanics, heat, sound, electricity, magnetism, and optics. Primarily a course for students in the life and health sciences.
Prerequisite(s): A grade of C or better in all of the following: PHYS 201.
Notes: Lab Fee: $\$ 40$. Offered in Fall.

## 211. Physics with Calculus I (4:3:3).

A calculus-based introductory physics course primarily intended for students in the physical and mathematical sciences. The course covers mechanics, wave motion, thermodynamics, electromagnetism, optics and some modern physics.
Prerequisite(s): A grade of C or better in the following:MATH 201.
Notes: Lab Fee: \$40. A student may not receive credit for both PHYS 201 and 211 and f or both PHYS 202 and 212. Offered in fall.
212. Physics with Calculus II (4:3-3).

A calculus-based introductory physics course primarily
intended for students in the physical and mathematical sciences. The course covers mechanics, wave motion, thermodynamics, electromagnetism, optics and some modern physics.
Prerequisite(s): A grade of C or better in PHYS 211. Notes: Lab Fee: $\$ 40$. Offered in the fall.

## 250. Matter and Energy (3).

An introductory course in physics and chemistry primarily intended for education majors, incorporating the science curriculum standards of South Carolina. Restricted to ECED, ELED and SPED majors.
Prerequisite(s): Completion of General Education Quantitative Skills Requirement with a grade of C or above. Corequisite(s): PHYS 251.
Notes: Offered in fall, spring and summer.
251. Matter and Energy Laboratory (1:0:3).

A laboratory to accompany PHYS 250. Restricted to
ECED, ELED and SPED majors.
Prerequisite(s): MATH 140.
Corequisite(s): PHYS 250.
Notes: Lab Fee: $\$ 40$. Offered in fall, spring and summer.

## 253. Astronomy (3).

A descriptive astronomy course for the liberal arts student covering the solar system, stars, galaxies, and cosmology.
Notes: Offered in spring.

## 256. Musical Acoustics (3).

An introductory musical acoustics course covering production, propagation and basic properties of musical sounds as well as musical instruments, auditorium acoustics and sound reproduction media.
Notes: Offered as needed.

## 301. Modern Physics (3).

An introductory modern physics course covering relativity, early quantum theory and basic quantum mechanics with selected applications to atomic, nuclear, solid state, and particle physics.
Prerequisite(s): A grade of C or better in all of the following: PHYS 212 or PHYS 202.
Notes: Offered in fall.
315. Circuit Analysis (3:2:3).

An intermediate level circuit analysis course that covers
DC and AC circuits and their design using semiconductor devices.
Prerequisite(s): A grade of C or better in all of the following: PHYS212 or PHYS 202, MATH 202.
Notes: Lab Fee: $\$ 40$. Offered as needed.

## 321. Materials Science (3).

An introduction to the synthesis, structure, properties, and technical performance of engineering metals, ceramics, and polymers and semiconductors and superconductors. Prerequisite(s): A grade of C or better in all of the following: PHYS 212 or PHYS 202, CHEM 106.
Notes: Offered in spring.
331. Engineering Mechanics: Statics (3).

Introduction to the principles of particle and rigid body
mechanics with engineering applications. Force systems, equilibrium conditions, simple structures, and machines will be analyzed.
Prerequisite(s): A grade of C or better in all of the following: PHYS 211.
Notes: Offered as needed.
332. Engineering Mechanics: Dynamics (3).

A study of kinematics and kinetics of particles and rigid bodies. Major topics covered are Newton's second law, work-energy and impulse-momentum principles, energy and momentum conservation laws and applications of plane motion of regid bodies.
Prerequisite(s): A grade of C or better in PHYS 331.
Notes: Offered as needed.
350. Thermodynamics (3).

An intermediate level thermodynamic course that covers the basic concepts of heat and temperature, the laws of thermodynamics with application to simple thermodynamic systems, processes, and thermal properties of substances.
Prerequisite(s): A grade of C or better in all of the following: MATH 202 and PHYS 201 or PHYS 211 or CHEM 106. Notes: Offered as needed.

351, 352, 353. Independent Study in Physics (3) (3) (3). Directed study of topics in physics which are not available through the regular curriculum.
Prerequisite(s): Permission from the Department Chair and PHYS 202 or 212.
Notes: Offered in fall, spring and summer.

## Political Science (PLSC)

## 201. American Government (3).

National governmental institutions and the political processes which shape public policy. Meets state requirements for course on the U.S. Constitution.
Notes: Offered in fall, spring and summer.

## 202. State and Local Government (3).

A comparative study of the structure and functions of state and local government institutions and political processes.
Notes: Offered in fall and spring.

## 205. International Politics (3).

An introduction to the conceptual framework of contemporary foreign policy and international relations.
Notes: Offered in fall and spring.

## 207. Comparative Politics (3).

An introduction to the discipline of comparative politics. The course will explore the theoretical components of governments of the world and will prepare students for upper level area studies.
Notes: Offered in fall and spring.

## 210. Introduction to Law (3).

An introduction to legal processes, institutions, and the principles of key substantive areas of law.

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## 220. Introduction to Public Administration (3).

A survey of the major topics in the study of American public administration, including organization theory, personnel management, financial management, and administrative law.
Prerequisite(s): PLSC 201.
Notes: Offered variable times.

## 260. The United Nations (3).

The organization and procedures of the United Nations. Preparation for participation in a model United Nations. Notes: Intensive Oral Communication course. Offered in spring.

## 261. Model UN Symposium (1).

Learn to chair and support parliamentray organizations.
Manage large conference. Understand how United
Nations Secretariat functions.
Prerequisite(s): PLSC 260 with a grade of C or better or permission of instructor.
Notes: Offered in spring.
302. Government of South Carolina (3).

The study of the government of South Carolina with particular emphasis on current and perennial problems. Prerequisite(s): PLSC 202 or permission of instructor. Notes: Offered variable times.

## 305. The National Executive (3).

Study of the contemporary U.S. Presidency and the Executive Branch.
Prerequisite(s): PLSC 201 with a grade of C or better, or permission on instructor.

## 306. Congress (3).

Congress and its principal activities, including an analysis of the way in which Congress makes public policy. Prerequisite(s): PLSC 201 with a grade of C or better, or permission of instructor.
307. American Parties and Practical Politics (3).

Political parties, interest groups and citizen politics.
Prerequisite(s): PLSC 201 with a grade of C or better, or permission of instructor.
Notes: Offered variable times.

## 310. The Judiciary (3).

The courts as decision-making bodies in the political process. Their relationship to the legal profession, interest groups and other parts of government.
Prerequisite(s): PLSC 201 with a grade of C or better, or permission of instructor.
Notes: Offered variable times.
311. Constitutional Law: Federalism and Institutions (3). The substantive law of separation of powers; powers among the branches of government and between national and state governments. Emphasis on legal, political and historical contexts and processes.
Prerequisite(s): PLSC 201 or permission of instructor. Notes: Offered variable times.
312. Constitutional Law: Civil Rights and Civil Liberties (3).

The substantive law of rights and liberties, with an emphasis on the political freedoms of speech and press, religious freedom, freedom from discrimination, and due process rights in criminal law.
Prerequisite(s): PLSC 201 or permission of instructor. Notes: Offered variable times.
313. Public Opinion and Political Participation (3). The nature, formation and measurement of public opinion, including the kinds of political participation, and the ways that public opinion, political participation, and public policy influence one another. Participation in conducting telephone surveys is required.
Prerequisite(s): PLSC 201 with a grade of C or better, or permission of instructor.
Notes: Offered variable times.
314. Media and Politics (3).

The effects of the mass media on American politics including its role in campaigns, institutions and public policy.
Prerequisite(s): PLSC 201 with a grade of C or better, or permission of instructor.
315. Urban Politics (3).

The operation of government in metropolitan areas.
Prerequisite(s): PLSC 201 with a grade of C or better, or permission of instructor.
Notes: Crosslisted with AAMS 315. Offered variable times.
317. African American Politics (3).

This course is designed to provide students with a thorough understanding of the Black political experience in the United States. It considers relevant historical background and context, the constitutional framework of American government, and the nature of interactions with the main institutions of government. What is more, the course focuses on the role and participation of Blacks in US government and politics as well as the role of political parties, independent group politics, and social movements. In the process, the course highlights the Black struggle for freedom, justice, equility, and full inclusion in the American political community. The role of race, class, and gender in African American politics is a concomitant focus of the course.
Prerequisite(s): PLSC 201 with a grade of C or better, or permission of instructor.
Notes: Crosslisted with AAMS 317.

## 320. Public Budgeting (3).

A practical focus upon public finance that includes a comparison of alternative budget formats, key analytical techniques and budgetary politics.
Prerequisite(s): PLSC 201 with a grade of C or better, or permission of instructor.
Notes: Offered variable times.

## 321. Public Policy and Policy Analysis (3).

A study of policy formulation and adoption at various governmental levels and of methodologies used to
measure policy impacts.
Prerequisite(s): PLSC 201 with a grade of C or better, or permission of instructor.

## 325. Environmental Politics (3).

A study of the creation and implementation of major national and international environmental policies, and the varied social and political movements engaged environmental politics.
335. Government and Politics of Latin America (3). Examination of contemporary political issues, political forces, and governmental institutions in Latin America. Prerequisite(s): PLSC 205 or PLSC 207 or permission of instructor.

## 336. Post Soviet Politics (3).

An introduction to the government and politics of the nations of the former Soviet Union with particular emphasis on the politics of reform. The latest scholarship will be utilized, as will the enduring classics in the field. Prerequisite(s): PLSC 205 or PLSC 207 or permission of instructor.
337. Women and Global Politics (3).

Examines the role of women in the sphere of global politics. Course assumes some knowledge of the basic issues confronting women in contemporary global context.
Prerequisite(s): WMST 300 or PLSC 205 or PLSC 207 or permission of instructor.
338. Government and Politics of Africa (3).

Examination of historical and contemporary political issues, political forces, and governmental institutions in Africa.
Notes: Crosslisted with AAMS 338.
Prerequisite(s): PLSC 205 or PLSC 207 or permission of instructor.

## 345. European Politics (3).

A study of governmental systems, cultures, and enduring problems of Western and Central Europe.
Prerequisite(s): PLSC 205 or PLSC 207 or permission of the instructor.
Notes: Offered alternate fall semesters.

## 350. Scope and Methods (3).

Introduction to methodology, the research process, the relationship of theory to research and the conduct of research involving research techniques and simple numerical analysis. Participation in conducting telephone surveys is required.
Notes: Lab Fee: \$40. Intensive Writing course. Offered in the fall and spring.

## 351. Ancient and Medieval Political Thought (3).

Survey of the history of Western political thought from the Ancient Greeks through the Middle Ages.
Prerequisite(s): GNED 102 or permission of instructor. Notes: Intensive Writing Course.
352. Modern and Contemporary Political Thought (3). Survey of the major political ideas of the modern era from the Enlightenment through Postmodernism.
Prerequisite(s): GNED 102 or permission of instructor.
355. Political Ideologies (3).

A critical study of the ideologies important to the formulation and development of the political systems in the modern world.
Prerequisite(s): GNED 102 or permission of instructor.
356. American Political Thought (3).

Explores the origins of current American Political Thought through an examination of political writings from colonial times to the present.
Prerequisite(s): GNED 102 or permission of instructor.
371. Women and Politics in the U S (3).

Women, as a special interest group, and their role in the American political process.
Prerequisite(s): PLSC 201 or WMST 300 with a grade of C or better, or permission of instructor.
390. Selected Topics in Political Science (3).

Topics to be chosen by the instructor.
Notes: May be retaken for additional credit. Offered variable times.

450H. Honors: Selected Topics in Political Science (3).
Prerequisite(s): Permission of the Chair.
Notes: Offered in fall and spring.
471, 472, 473. Academic Internship in Political Science
(1) (2) (3).

Prerequisite(s): Permission of the Chair.
Notes: Offered in fall, spring and summer.
498. Independent Study in Political Science (3).

This course is designed to allow students to study a topic of Political Science in greater depth than allowed in a traditional classroom setting. Students will receive assignments from their supervising instructor as appropriate.
Prerequisite(s): Permission of instructor and chair required.
Notes: Course may be repeated once. Students are limited to total of nine hours in PLSC 450H, 498, 501, 502 and 503 , and HONR 450 H combined.

501, 502, 503. Academic Research in Political Science (1) (2) (3).

Students conduct original research in a Political Science field.
Notes: Students are limited to nine total credits in PLSC $498,501,502,503,450 \mathrm{H}$ and HONR 450 combined.
504. American Foreign Policy (3).

Study of policy formulation and the decision-making process.
Prerequisite(s): PLSC 205 or PLSC 207 or graduate status or permission of instructor.

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505. Government and Politics of Modern China (3).

This course will provide students a chance to focus on one of the most powerful Asian countries in the world in terms of its place in present day politics. Students will learn how China deals with its own policies as a Communist country and how it deals with the rest of the world. Prerequisite(s): PLSC 205 or 207 or graduate status or permission of instructor.
Notes: Offered alternate years.
506. International Political Economy (3).

A study of the foundations and operation of the international political economy. Examines the impact and influences of the key institutions, theories, and trends guiding the interaction of politics and economics globally. Prerequisite(s): PLSC 205 or PLSC 207 or graduate status or permission of instructor.

## 508. National Security (3).

An exploration of a number of approaches to national security, including traditional military analysis to newer issues such as environmental and resource security.
Prerequisite(s): PLSC 205 or PLSC 207 or graduate status or permission of instructor.
Notes: Offered alternate fall semesters.
510. Topics in Political Inquiry (3).

Topics to be chosen by the instructor.
Notes: May be retaken for additional credit.

## 512. Politics and Education (3).

Public schools as agents of political socialization and their interaction with governments and political forces at the local, state and national level.
Prerequisite(s): PLSC 201 with a grade of C or better, or graduate status or permission of instructor.
Notes: Offered variable times.

## 518. Politics of the American South (3).

Focuses on the unique politics of the South. It places southern politics in its theoretical and historical context and examines the central role of race in southern politics as well as regional importance to national politics.
Prerequisite(s): PLSC 201 with a grade of C or better or permission of instructor.
Notes: Crosslisted with AAMS 518. Offered fall or spring on a biennial basis.

524H. Health, Media and Public Policy (3).
This course examines the intersection between media and public policy, with a particular focus on the field of health policy.
Prerequisite(s): 3.00 minimum GPA.
532. Government and Politics of Asia (3).

Examination of contemporary political issues, political forces and governmental institutions in Asia.
Prerequisite(s): PLSC 205 or PLSC 207, or graduate status, or permission of instructor.
Notes: Offered variable times.
551. African American Political Thought (3).

This course explores the historical struggle of African-

Americans to assess their identity in relationship to their legal and social oppression. In reflecting on the work of Audre Lorde, W.E.B. DuBois, Frederick Douglass, Langston Hughes, James Baldwin, Ralph Ellison, Sojourner Truth, Toni Morrison, Edward Said, Martin Luther King, Malcolm X, Cornell West, Henry Louis Gates, Alice Walker, Bell Hooks, Mark Twain and others, we will angle in on the question of black identity from a variety of perspectives. Particular attention will be paid to the relationship between these articulations of "blackness" and the historical and political settings in which they arise. Informed class discussion will be emphasized. Students are expected to write a term paper and to present it to the class.
Prerequisite(s): GNED 102 or permission of the instructor, or graduate status.
Notes: Crosslisted with AAMS 551. Intensive Writing course.
553. Feminist Theory (3).

This course is designed to acquaint students with the variety of ideas, methods and issues raised within contemporary feminist literature.
Prerequisite(s): GNED 102, or graduate status, or permission of instructor.

## Psychology (PSYC)

101. General Psychology (3).

Introductory survey of the entire field of psychology. Notes: Offered in fall, spring and summer.
198. Psychology as a Discipline and Profession (1). Introduction to Psychology as a discipline and profession, intended for psychology majors and those considering psychology as a career choice.
Prerequisite(s): PSYC 101; may be a co-requisite for sophomores, new majors and transfer students.
Notes: Offered in fall and spring.
301. Research I: Statistics (4:3:2).

Study of descriptive and inferential statistics as they apply to the behavioral sciences.
Prerequisite(s): PSYC 101 and General Education Math requirement.
Notes: Lab Fee: $\$ 15$. Offered in fall, spring and summer.
302. Research II: Experimental Psychology (4:3:2).

Study of the scientific methods used in research including an opportunity to conduct research.
Prerequisite(s): PSYC 301 and WRIT 102 or CRTW 201.
Notes: Lab Fee: \$15. Intensive Writing Course. Offered in fall and spring.
306. Development I: Childhood (3).

Study of the development of children from conception
through pre-adolescence.
Prerequisite(s): PSYC 101.
Notes: Offered in fall, spring and summer.
307. Development II: Adulthood (3).

Development of human beings from adolescence through
late adulthood.
Prerequisite(s): PSYC 101.
Notes: Offered in fall and spring. Crosslisted with GRNT 307.

## 310. Career Development (3).

Theory, research and practice in career development. Areas covered include occupational choice, job search, recruitment and organizational socialization, career stages and transitions and related issues.
Notes: Offered variable times.

## 320. Racial, Cultural and Ethnic Influences on Identity

 Development (3).This course examines how race, ethnicity and culture influence the development of personal identity of self. Historical and contemporary models of ethnic, cultural and/or racial identity formation will be examined.
Diversity in the devopmental process and outcomes of identity formation for African Americans will be emphasized.
Prerequisite(s): PSYC 101 or AAMS 300 and WRIT 101.
Notes: Offered in summer. Cross-listed with AAMS 320.
340 A, B, C. Cooperative Education Experience (1) (2) (3). Provides on-the-job training in a professional field related to a student's major or career interests.
Prerequisite(s): Overall GPA of 2.5 and minimum of 24 earned undergraduate semester hours. Placement objectives must be approved by Department Chair prior to enrollment.
Notes: For Psychology majors only. A maximum of 3 hours may be applied toward a degre e in Psychology. A student may receive credit for either PSYC 461-462 or PSYC 340, but not both as credit for major. A grade of S or $U$ is recorded. Offered in the fall, spring and summer.
400. History and Systems of Psychology (3).

Study of philosophical and scientific basis of modern psychology and the history of psychology as a modern scientific discipline.
Prerequisite(s): PSYC 101, 301 and 302.
Notes: Offered twice per year.
461, 462. Academic Internships in Psychology (1) (2).
Application of psychological principles in work settings.
Course involves working in experiential settings in which
psychological principles are applied and participating in a seminar.
Prerequisite(s): Open to majors only. Approval from Department of Psychology.
Notes: Offered on demand.
471, 472. Undergraduate Research in Psychology (1) (2). Participate as co-experimenter in on-going research programs or perform guided individual research. Prerequisite(s): Prior approval by an assigned faculty member and the Department Chair and PSYC 101. Notes: Offered in fall, spring, and summer.

## 498. Senior Seminar in Psychology (3).

An advanced capstone seminar for graduating seniors or students who have completed majority of psychology
course requirements, emphasizing an in-depth review and update of core topics and current issues in psychology, including the comprehensive assessment of core skills and knowledge from the major.
Prerequisite(s): For psychology majors only.
Notes: Offered in fall and spring.
503. Abnormal Psychology (3).

Introduction to the disorders of behavior.
Prerequisite(s): PSYC 101.
Notes: Offered in fall and spring.
504. Psychology of Women (3).

Intensive study of the research and issues in psychology that pertain specifically to women.
Prerequisite(s): PSYC 101.
Notes: Offered in fall and spring.
505. Physiological Psychology: Biological Foundations of Behavior (3).
Study of the human nervous system and its relation to behavior and experience.
Prerequisite(s): PSYC 301 or permission of chair, Department of Psychology.
Notes: Offered in spring.
506. Psychological Measurements (3).

Study of the construction, evaluation and application of individual and group tests and the analysis and interpretation of their results.
Prerequisite(s): PSYC 101.
Notes: Offered in fall.

## 507. Social Psychology: The Individual and Other People (3).

Examination of the intrapersonal and interpersonal factors that influence human social behavior.
Prerequisite(s): PSYC 101.
Notes: Offered in fall, spring and summer.
508. Principles of Learning: Cognition (3).

The human viewed as a system that processes information. Topics include sensory processes, memory, language and thinking.
Prerequisite(s): PSYC 301 or permission of chair, Department of Psychology.
Notes: Offered in fall and spring.
509. Principles of Learning: Conditioning (3).

Review of the theoretical concepts and major variables relevant to animal and human motivation and conditioning.
Prerequisite(s): PSYC 301 or permission of chair, Department of Psychology.
Notes: Offered in fall.
510. Behavior Analysis and Behavior Change (3).

Study of application of behavior management techniques in educational, clinical and domestic settings.
Prerequisite(s): PSYC 101.
Notes: Crosslisted with SPED 510. Offered in fall and spring.

## PSYCHOLOGY/QUANTITATIVE METHODS/READING

512. The Exceptional Child (3).

Study of individuals with special problems in cognitive, emotional or motor ability.
Prerequisite(s): PSYC 101.
Notes: Offered in fall.
513. Introduction to Theory and Fundamentals of Clinical Practice (3).
Survey of theoretical issues and training in professional skills useful to pursuing a career in applied areas of psychology.
Prerequisite(s): At least junior standing; PSYC 101, 503 or 514; or permission of instructor.
514. Theories of Personality (3).

Advanced integrative study of the most important theories of personality.
Prerequisite(s): One course in PSYC numbered above 299. Notes: Offered in fall and spring.
515. Health Psychology and Behavioral Medicine (3).

Study of the biological, social and psychological factors that combine to influence human health and health practices. Models and methods of identification, prevention and treatment applicable to behavioral medicine will be reviewed.
Prerequisite(s): PSYC 101 and 505 or equivalent, or graduate standing in psychology or an allied profession. Notes: Offered in fall.
516. Industrial and Organizational Psychology (3). Introduction to psychology in industry, business and other large organizations.
Prerequisite(s): PSYC 101.
Notes: Offered once per year.
520. Contemporary Issues in Psychology (3).

In-depth consideration of a topic of particular concern within modern psychology. May be offered under various topics.
Prerequisite(s): PSYC 101 or permission of instructor. Notes: Offered on demand. May be retaken for additional credit under different topics .

## Quantitative Methods (QMTH)

## 205. Applied Statistics I (3).

Concepts of probability theory, sampling, descriptive statistics, and statistical estimation.
Prerequisite(s): MATH 101 and CSCI 101, 105, or 110.

## 206. Applied Statistics II (3).

Concepts of hypothesis testing, regression and correlation analysis, Chi-Square analysis, quality control, and decision theory.
Prerequisite(s): QMTH 205.

## Reading (READ)

321. Elementary and Middle School Language Arts (3:3). Emphasis on the teaching of listening, speaking, and
written expression.
Notes: Offered in fall and spring.
322. Elementary and Middle School Language Arts: Laboratory (1:0:1).
Requires students to review the literature on a selected educational topic and to write a formal paper on the selected topic. This course will satisfy Winthrop's Writing Intensive Requirement for ECED and ELEM majors. SPED and others who have satisfied the requirements in other courses need not enroll.
Corequisite(s): READ 321.
Notes: Intensive Writing course. Offered in the fall and spring.
323. Independent Study in Teaching Reading (2).

Requires referral from reading courses. For students requiring additional time and assistance to attain competency in the teaching of basic reading skills.
Notes: Not offered this academic year.

## 461. Introduction to Teaching Reading in the Elementary School (3:1:0).

This course provides basic understanding of: factors related to literacy; literacy competencies; procedures for developing literacy instruction; and assessment measures for literacy.
Prerequisite(s): Admission to teacher education.
Notes: ECED and ELEM majors must take READ 510 as a co-requisite. A grade of C or higher must be earned.
Offered in the fall, spring and summer.
All courses in the College of Education numbered above 499 have a prerequisite of junior status or permission of the dean of the College of Education.
510. Literature for Children (3).

An introduction to books, magazines and non-print adaptations (e.g., audio recordings, filmstrips, books on disk, and video recordings) of literature appropriate for children's growth in literacy.
Prerequisite(s): READ 321/322 or equivalent.
Corequisite(s): READ 510 is a co-requisite for READ 461.
Notes: For ECED and ELEM majors. Offered in fall,
spring and summer.
541. Reading in the Secondary School (3).

A study of the background information and skills needed by secondary teachers for guiding pupils' growth in and through reading; identification of and planning for instruction needed.
Prerequisite(s): Admission to Teacher Education Program. Notes: Not offered this academic year.

550 thru 559. Problems in Teaching Reading (1, 2, 3).
To assist school personnel in the identification, analysis, and planning of strategies to overcome specific problems in the teaching of reading.
Notes: Offered on demand.
561. Teaching Basic Reading Skills (3).

Introductory course in teaching reading.
Prerequisite(s): EDUC 381 or equivalent and Admission to

Teacher Education Program.
Notes: Students may not receive credit for READ 561 and READ 461 or READ 562. Offered in summer.
562. Teaching Basic Reading Skills in Middle and Secondary School (3).
Persons teaching or preparing to teach in middle or secondary school examine basic reading skills in relation to the needs and characteristics of their pupils.
Prerequisite(s): EDUC 381 or equivalent and Admission to Teacher Education Program.
Notes: A student may not receive credit for READ 562 and READ 461 or READ 561. Offered on demand.
571. Diagnostic and Prescriptive Teaching of Reading (3).

Students develop skills for applying the principles learned in the basic reading course by providing instruction adjusted to the individual needs of one pupil.
Prerequisite(s): Grade of C or better in READ461, READ 561 or READ562 and Admission to Teacher Education Program.
Notes: Offered in fall, spring and summer. Work with pupils required.

## Religion (RELG)

201. Introduction to Religious Studies (3).

Examination of the varying concepts of religion and the methods used in studying religious behavior and belief. Notes: Offered variable times.

## 300. Comparative Religion (3).

Study of the major world religions including Hinduism, Buddhism, Chinese religion, Shinto, Judaism, Christianity and Islam.
Notes: Offered variable times.
310. Early Jewish and Christian Self-Definition (3). A study of how early Jews and Christians constructed their identities with respect to their neighbors, from 200 BCE-200 CE. In addition to some biblical materials, the course will introduce a wide range of apocryphal and non-canonical Jewish and Christian literature of the period.
Prerequisite(s): RELG 313 and 314, or the permission of the instructor.
Notes: Offered variable times.
313. Introduction to the Hebrew Bible (Old Testament) (3).

Historical and literary study of the Hebrew Bible (Old Testament).
Notes: Offered variable times.
314. New Testament (3).

Historical and literary study of New Testament literature. Notes: Offered variable times.

## 320. Religion in America (3).

A historical and social overview of the development of religion in the United States, including indigenous
religions, Protestant and Roman Catholic Christianity, and Judaism. Attention may also be devoted to slave religion and the black church, religion and gender, revivalism and fundamentalism and new religious movements.
Notes: Offered variable times.
350. Special Topics in Religious Studies (3).

In-depth consideration of a specific topic of particular concern in religious studies. The course may be offered under various topics. It may be repeated for credit under different topics.
Prerequisite(s): RELG 201 or RELG 300 or permission of instructor.
Notes: Offered variable times.
450. Honors: Selected Topics in Religion (3).

An independent inquiry, in-depth, into a selected topic in religion.
Prerequisite(s): Permission of the Chair.
Notes: Offered variable times.

## 495. Methods and Research Seminar in Religious Studies (3:3:0).

This course is an advanced research seminar for students who have already developed a solid background in the academic study of religion by having completed the core courses and 6 hours of electives in their major. The course emphasizes a detailed examination of selected topics and issues in religious studes. Asa Writing Intensive course and a capstone seminar, it will include the assessment of core skills and knowledge from the major and will help students improve their writing skills as they develop their own more intense research projects in their own discipline.
Prerequisite(s): PHIL 201, PHIL 300, RELG 201, RELG 300, 6 additional hours in PHIL or RELG.
Notes: Intensive writing course. Offered in spring every other year.
550. Special Topics in Religion (3).

An in-depth consideration of a specific topic of concern in religion. The course may be offered under various topics. It may be repeated for credit under different topics. Prerequisite(s): Permission of the instructor.
Notes: Offered in fall, spring and summer.

## Science (SCIE)

202. Introduction to DNA Science (3:2:3).

A lecture/laboratory course designed to provide nonscience majors with an understanding of what DNA is and how it controls our life and health, its importance in evolution and adaptation, and how recombinant DNA technology can be and is applied to medicine, agriculture, and industry.
Notes: Lab Fee: $\$ 40$. Offered in fall and spring.

## 222. Field Studies in Science (6:3:9).

Travel to distant areas where outstanding and unique examples of geological and biological features can be studied and the relationships between these disciplines can be examined.

Prerequisite(s): WRIT 102 or GNED 102 and sophomore status.
Notes: Offered in summer.

## 223. Natural History and Environmental Issues in Tropics (4:1:5).

Travel to tropical locations where lectures, seminars and field exercises will examine and contrast the varied marine, freshwater and terrestrial ecological habitats. Human intervention into these habitats and their alteration by human activity will be a major focus.
Prerequisite(s): Minimum sophomore status, WRIT 102 or GNED 102 with C or better, Spanish helpful but not required.
Notes: Offered in summer.

## 224. Plant Anatomy and Illustration (4:2:2).

An introduction to plant anatomy, identificaton, ecology, and illustration. The development of observational skills, in the field, and the subsequent production of black and white illustrations suitable for publication is emphasized. Notes: Offered in summer.

## 301. Biology of Aging (3).

Study of the biological changes that accompany aging. The course examines the biological process of aging at a variety of levels ranging from molecular-cellular changes up to the physiology of whole organ systems.
Prerequisite(s): WRIT 102 or GNED 102 and at least junior standing.
Notes: Offered in fall of even years and every maymester. Crosslisted with GRNT 301.
391. Principles of Teaching Science (3).

Study and application of planning, instruction management, and assessment of students in science. Includes a review of the ethical and legal responsibilities of science teachers.
Prerequisite(s): Admission to Teacher Education Program. Corequisite(s): SCIE 392, EDUC 390.
Notes: Offered in fall.

## 392. Field Experience in Teaching Science (1:0:8).

Students will spend a minimum of 8 hours per week in the classroom under the supervision of a science education professor and will work with a mentor teacher in preparation for the final internship experience.
Prerequisite(s): Admission to Teacher Education Program. Corequisite(s): SCIE 391, EDUC 390.
Notes: A grade of S or U is recorded. Offered in fall.

## 520. Special Topics in Science (3).

Readings and discussion of scientific topics which cross disciplinary boundaries. Primarily for junior and seniors. Prerequisite(s): A 3.0 GPA and/or permission of chair. Notes: Offered on demand.

## Secondary Education (SCED)

573. Career Education (3).

Emphasizes elements common to all areas of cooperative programs. These include recruitment, selection, initiation,
organization, counseling, and placement of students in work situations.
Notes: Offered in fall.

## Social Studies Education (SCST)

391. Principles of Teaching Social Studies (3).

Study and application of skills of planning, instruction, management and assessment of students in Social Studies. Includes a review of the ethical and legal responsibilities of Social Studies teachers.
Prerequisite(s): Admission to Teacher Education Program.
Corequisite(s): SCST 392, EDUC 390.
Notes: Offered in fall.
392. Field Experience in Teaching Social Studies (1:0:8). Students will spend a minimum of 8 hours per week in the classroom under the supervision of a social studies education professor and will work with a mentor teacher in preparation for the final internship experience.
Prerequisite(s): Admission to Teacher Education Program. Corequisite(s): SCST 391, EDUC 390.
Notes: A grade of S or U is recorded. Offered in fall.

## Social Work (SCWK)

200. Introduction to Social Work (3).

Introductory study designed to provide students an overall picture of the nature, philosophy, and goals of professional social work practice.
Prerequisite(s): CSCI 101 or equivalent.
Corequisite(s): SCWK 201.
Notes: Offered in fall and spring.
201. Introduction to Social Work: IT Lab (1:0:1).

Lab includes review of information technology (IT) knowledge and skills expected of social workers and in the social work major. Competencies are developed using computers in areas such as information search and web based instructional technologies. Major present and developing IT issues in society that impact social work practice are explored.
Prerequisite(s): CSCI 101 or equivalent.
Corequisite(s): SCWK 200.
Notes: Offered in fall and spring.
202. Special Directed Volunteer Experience (3). Special agency placement course. Weekly journal. Notes: A grade of S or U is recorded. May not be counted as a SCWK elective toward a BSW degree in Social Work. Offered in the fall, spring, and summer.
305. Human Behavior in the Social Environment (3). Study of a social systems approach to understanding human behavior and development throughout the lifespan using a biophysical, psychological and social multidimensional framework for assessing social functioning.
Prerequisite(s): PSYC 101, SCWK 200, 201, ANTH 201, SOCL 201, and SCIE 301 (may be taken concurrently) or permission of the instructor.
306. Working with Multi-Cultural Client Systems (3). Using a strengths perspective the focus is on issues of diversity, oppression and empowerment in a range of client systems within the context of race, culture, class, gender, sexual preference, age and difference.
Prerequisite(s): SCWK 305 (May be taken concurrently) or permission of the instructor.

## 312. Social Work in Secondary Settings (3)

A description of social work practice in secondary social work settings such as schools, hospitals, courts, churches, and nursing homes.
Notes: Offered on demand.

## 321. Social Welfare as a Social Institution (3).

An investigation of attitudes, policies and practices found in society which relate to the well-being of individuals and of society.
Prerequisite(s): ECON 103, PLSC 201, and SCWK 200
(May be taken concurrently).
Notes: Offered in fall and spring.
330. Research Methods for Social Work (3).

Study of research concepts, designs, methodology and stages of the research process. Emphasis on acquisition of knowledge and development of skills to evaluate professional literature and generalist social work practice. Prerequisite(s): SCWK 200 (May be taken concurrently). Notes: Intensive Writing course. Offered in fall and spring.
340. A, B, C. Cooperative Education Experience (1) (2) (3).

Provides on-the-job training in a professional field related to a student's major or career interests.
Prerequisite(s): Overall GPA 2.5 and minimum of 24 earned undergraduate semester hours. Placement
objectives must be approved by Department Chair prior to enrollment.
Notes: For Social Work majors only. Courses may be repeated for credit; a maximum of 3 hours may be applied toward a degree in Social Work. A grade of $S$ or $U$ is recorded. Offered in fall and spring.

## 395. Social Work Intervention I (3).

Basic concepts, values and skills of generalist social work practice that emphasizes the problem solving model and case management method in working with individuals and families.
Prerequisite(s): SCWK 200, 305, 306 (May be taken concurrently), SCWK 321 (May be taken concurrently), SCWK 330 (May be taken concurrently). Social Work majors only.
Notes: Offered in fall and spring.

## 432. Social Work Intervention II (3).

The study and application of social work group theory as it applies to agency and community task groups, client intervention groups and families. Role play, simulations, and the use of video recordings will be used in the course. Prerequisite(s): SCWK 395. Social Work majors only. Notes: Offered fall and spring.
433. Social Work Intervention III (3).

Detailed study of the application of theoretical and practice models for generalist social work practice with emphasis on organizations and communities.
Prerequisite(s): SCWK 395, SCWK 432. (May be taken concurrently.) Social Work majors only.
Notes: Offered in fall and spring.

## 434. Interpersonal Helping Skills in Social Work

 Practice (3).Interpersonal helping skills lab with emphasis on the development and practice of communication, interviewing and recording skills.
Prerequisite(s): SCWK 395, SCWK 432 (May be taken concurrently), SCWK 433 (May be taken concurrently). Social Work majors only.
Notes: Offered in the fall and spring.
443. Social Work Field Instruction (12:0:12).

Minimum of 520 hours of placement in a human services agency working under social work supervision. Provides opportunity to develop competence as a social work generalist practitioner.
Prerequisite(s): SCWK 395, 432, 433, 434, Social Work majors only.
Corequisite(s): SCWK 463.
Notes: Lab Fee: $\$ 85$. A grade of S or U is recorded.
Offered in fall, spring and summer.
450. Honors: Selected Topics in Social Work (3).

An independent inquiry, in-depth, into a selected topic in Social Work.
Prerequisite(s): Permission of the Chair.
Notes: Offered in fall, spring and summer.
463. Social Work Field Seminar (2).

A seminar class of discussion, presentations and role playing to accompany field instruction and help integrate the professional identity.
Prerequisite(s): SCWK 395, 432, 433, 434, Social Work majors only.
Corequisite(s): SCWK 443.
Notes: Offered in fall, spring and summer.
510. Protective Services For Children and Families (3). Study of protective services and of the problems of child abuse and neglect, single parent families, foster care, parental rights, etc.
Notes: Offered on demand.
514. Child Welfare: Policies and Practice (3). A study of child welfare including historical perspectives, current trends and issues, policy and legislation and implications for practice.
Notes: Offered on demand.
516. Social Work in Long Term Care (3).

Provides an overall view of long-term care and highlights social work roles/responsibilities, interdisciplinary team concept, social work techniques with residents and their families.
Notes: Offered on demand.

## SOCIAL WORK/SOCIOLOGY

517. Human Services in Health Care Settings (3).

A study of the development of human services in health care settings and the tasks of social workers in health settings. Health concerns of the general and specific populations will be explored in depth.
Notes: Offered on demand.
536. Seminar on the Aging Family (3).

Factors relevant to the role and status of the aged. Attention to health, retirement income, living arrangements, generational relationship, leisure time, widowhood, resources and future prospects.
Notes: Offered on demand.
540. Social Work with Alcoholic Families (3).

Examination of the alcoholic family as a system, including organizing factors; childhood development and resulting adaptive behavior and pathology in adulthood; individual and group intervention within a family context.
Notes: Offered on demand.
550. Special Topics in Social Work (3).

Special topics of timely interest will be given on a onetime basis.
Notes: Offered in the fall, spring, and summer. May be repeated for credit under different topics.

## Sociology (SOCL)

## 101. Social Problems and Social Policy (3).

Analysis of the types, extent, and causes of social problems; policies and programs directed toward their resolution.
Notes: Offered in fall and spring.

## 201. Principles of Sociology (3).

Introduction to the perspectives, approaches and basic concepts used in the sociological study of human social behavior.
Notes: Offered in fall and spring.

## 227. Criminal and Juvenile Justice Systems (3).

Introduction to the development and current organization and operation of the responses of police, courts, and correctional agencies to criminal and juvenile offenders. Notes: Offered in fall and spring.
301. Comparative Study of Social Institutions (3). Examination of basic social institutions of modern and developing societies in the world system of nations. Prerequisite(s): SOCL 101 or 201 or permission of the instructor.
Notes: Offered variable times.
303. Socialization: Self and Society (3).

Study of the social interaction processes through which individuals learn how to perform socially expected roles. Prerequisite(s): SOCL 101 or 201 or permission of instructor.
Notes: Offered variable times.
304. Death and Grief as Social Processes (3).

Analysis of these experiences as related to society's network of cultural values and organizational structures. Prerequisite(s): SOCL 101 or 201 or permission of instructor.
Notes: Offered variable times. Cross-listed with GRNT 304.

## 309. Urban Sociology (3).

Study of the physical and social structures of cities and urban areas, with special attention to urban problems.
Prerequisite(s): SOCL 101 or 201 or permission of the instructor.
Notes: Offered variable times.
310. Sociology of the Environment (3).

The course examines the effects of human populations and activities on the natural environment. Topics include environmental controversies; population, economic and political issues; the environmental movement; and prospects for "sustainable development."
Prerequisite(s): SOCL 101 or SOCL 201, Intro to Environmental Studies, or permission of instructor.
Notes: Offered in fall.

## 313. Social Inequality (3).

Study of structured inequality in societies, especially the U.S., and its effect on opportunities, style-of-life, and interaction.
Prerequisite(s): SOCL 101 or 201 or permission of the instructor.
Notes: Offered variable times.

## 314. Race and Ethnic Relations (3).

Review of sociological concepts, theories, and evidence pertaining to race and ethnicity in crosscultural, historical, and modern settings.
Prerequisite(s): SOCL 101 or 201 or permission of instructor.
Notes: Crosslisted with AAMS 314. Offered in fall and spring.

## 316. Social Research I: Statistics (4:3:3).

Study of descriptive and inferential statistics as they apply to the social sciences, with computer application.
Prerequisite(s): SOCL 101 or SOCL 201 and General
Education math requirement with grade of C or higher or permission of instructor.
Notes: Open only to Sociology majors or by permission from the department. Offered in fall, spring and summer.

## 319. The Study of Population (3).

Childbearing, death, and migration as processes affecting the growth, composition and distribution of human populations.
Prerequisite(s): SOCL 101 or 201 or permission of instructor.
Notes: Offered variable times.
320. Sociology of Contemporary Africa (3).

A study of society and culture in Africa today with a focus on economic and political issues; social institutions such as the family and religion; and social issues such as

AIDS, gender, and the environment.
Prerequisite(s): SOCL 101 or SOCL 201 or ANTH 201 or permission of instructor.
Notes: Offered in fall and spring.

## 325. Criminology (3).

Critical analysis of the extent, patterns, and causes of major types of crime and delinquency.
Prerequisite(s): SOCL 101 or 201 or permission of instructor.
Notes: Offered in fall.

## 328. Sociology of Religion (3).

Scientific study of the relationship between religion and the social order. Topics include (1) church, sect, and cult development, (2) the relationship of religion to other institutions and to social change, and (3) social aspects of individual religiosity.
Prerequisite(s): SOCL 101 or 201 or RELG 201, or permission of instructor.
Notes: Offered variable times.
330. Sociology of Deviant Behavior (3:3:0).

This course will analyze rule-making and rule-breaking processes within societies. Attention given to deviant identities, subcultures, rule types, stigmatizing rituals, and normalizing deviants, once they are labeled.
Prerequisite(s): SOCL 101 or SOCL 201.
335. Law Enforcement and Social Control (3).

Analysis of the development of policing and organization and operation of police agencies and how they function in roles as law enforcers, peace keepers, and service agents in modern society.
Prerequisite(s): SOCL 101 or 201, and SOCL 227.
Notes: Offered in the fall.
337. Corrections (3).

Analysis of society's responses in correctional systems to convicted lawbreakers. Attention to development of punishments and penal institutions and organization and operation of current programs from imprisonment to community-based corrections.
Prerequisite(s): SOCL 101 or 201 and SOCL 227.
Notes: Offered in spring.
340 A, B, C. Cooperative Education Experience (1) (2) (3). Provides on-the-job training in a professional field related to a student's major or career interests.
Prerequisite(s): Overall GPA of 2.5 and a minimum of 24 earned undergraduate semester hours. Placement objectives must be approved by Department Chair prior to enrollment.
Notes: For Sociology majors only. Courses may be repeated for credit; however, a maxi mum of 3 hours may be applied toward a degree in Sociology. A grade of S or $U$ is recorded. Offered variable times.
350. Special Topics in Sociology (3).

In-depth consideration of a specific topic of particular concern in sociology. Course will be offered under various topics.
Notes: It may be repeated for credit under different
topics. Offered variable times.
450. Honors: Selected Topics in Sociology (3).

Individual study centered around a special sociological project.
Prerequisite(s): Permission of the Chairperson.
Notes: Offered variable times.

## 463. Academic Internship in Sociology (3).

Prerequisite(s): Majoring in Sociology; approval from department. Open only to students majoring in sociology. Prior approval from the department is required. Depending upon the project or placement, specific courses may be required.
Notes: A grade of S or U is recorded. Offered in fall, spring and summer.

## 498. Senior Seminar in Sociology (1).

Issues, trends, and research in contemporary sociology.
Prerequisite(s): Completion of 21 semester hours in SOCL.
Notes: Offered in fall and spring.

## 502. Social Theory (3).

Survey of the masters of sociological thought with emphasis upon contributions to contemporary theory.
Prerequisite(s): SOCL 101 or 201 or permission of instructor.
Notes: Offered in fall and spring.
504. The Sociology of Aging (3).

Analysis of the major social forces which affect aging and the ways modern society responds in planning for its elderly.
Notes: Offered variable times. Cross-listed as GRNT 504.
505. Marriage and the Family (3).

Study of mate selection and marital adjustment; also child-rearing, divorce and change in family structure. Notes: Offered variable times.
506. Sociology of Competitive Sport (3).

Emphasis on the functions of sport for individuals and on sport as a social institution.
Notes: Offered variable times.

## 515. Social Change (3).

Classical and modern approaches to social change and consideration of long and short-term social trends.
Prerequisite(s): SOCL 101 or 201 or permission of instructor.
Notes: Offered variable times.
516. Social Research II: Methods (4:3:3).

Study of social research methods, with an emphasis on survey research and analyses of quantitative data, and experience carrying out a research project.
Prerequisite(s): SOCL 316 or other basic research courses or permission of instructor.
Notes: Offered in fall and spring.

## 518. Social Organization (3).

Study of the small group and its influence on the individual, the large organization and society-at-large.

SOCIOLOGY/SPANISH
Prerequisite(s): SOCL 101 or 201 or permission of instructor.
Notes: Offered variable times.
520. Sociology of Health and Illness (3).

Social etiology and ecology of disease, sociological factors affecting treatment and rehabilitation and the organization of medical care.
Notes: Offered variable times.

## 522. Sociology of Education (3).

Examination of American educational institutions with emphasis upon sociological and social psychological links to other social institutions and the wider society.
Notes: Offered variable times.
525. Sociology of Law (3:3:0).

This course will focus on selected legal rules, principles, an institutions treated from a sociology perspective. This course will examine the major theoretical perspectives on law and society, legal reasoning, morality and law as well as substantive issues relating to the legal process.
Prerequisite(s): SOCL 101 or SOCL 201, and SOCL 325. Notes: Offered in the spring and summer.

550 thru 559. Special Topics in Sociology (3).
Notes: Offered variable times.

## Spanish (SPAN)

Native speakers of a foreign language will not receive CLEP credit for the 101, 102, 201, or 202 courses in their native language, nor will they be permitted to enroll in 101, 102, 201, or 202 courses in that language. Students who are fluent in a language other than their native language or English may receive CLEP credit in that language, but may not enroll in 101, 102, 201 or 202 courses in the second language in which they are fluent.

From time to time an additional course dealing with a special topic in Spanish may be offered if sufficient student interest is indicated and a faculty member is available to teach the course. Consult the department chair about such a course.
101. Elementary Spanish (4:3:1).

Notes: Lab Fee: $\$ 25$. Offered in fall, spring and summer.
102. Elementary Spanish (4:3:1).

Prerequisite(s): Students who elect to take a 101 language course must receive at least a $C$ (or $S$ ) in that language course before continuing on to 102 of that language.
Notes: Lab Fee: $\$ 25$. Offered in fall, spring and summer.

## 201. Intermediate Spanish (3:3:1).

Prerequisite(s): Students who elect to take SPAN 201 must have received a C (or S) in SPAN 102 or a satisfactory score on an equivalent placement test.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.
202. Intermediate Spanish Conversation (3:3:1).

Prerequisite(s): SPAN 102.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.
210. Special Topics in Language and Culture (3). Intermediate special topics course whose subject will vary. Among the topics will be Spanish for business, the medical profession, etc.
Prerequisite(s): Completion of SPAN 201.
Notes: Offered variable times. May be retaken for additional credit with permission of Department Chair.
250. Introduction to Reading Hispanic Literary Texts (3). This course introduces students to literary diverse genres and periods by Spanish and Latin American authors. Special attention is given to problems of reading. The course also emphasizes building vocabulary necessary to read and discuss literary texts in Spanish.
Prerequisite(s): SPAN 201.
Notes: Offered in fall and spring.
280. The Spanish Film (3).

Introduction to significant examples of foreign language cinema as an art form and as embodiments of the culture of Spanish speaking countries.
Prerequisite(s): 6 hours of intermediate Spanish.
Notes: Offered in spring of odd years.
301. Hispanic Civilization and Culture (3).

Emphasis on Latin America.
Prerequisite(s): 6 hours 200-level SPAN.
Notes: Offered in spring.
302. Hispanic Civilization and Culture (3).

Emphasis on Spain.
Prerequisite(s): 6 hours of 200-level SPAN.
Notes: Lab Fee: $\$ 20$. Offered in fall.
310. Advanced Grammar and Composition (4).

Prerequisite(s): 6 hours of 200-level SPAN.
Notes: Offered in fall.
313. Advanced Spanish Conversation (3).

This course includes in-depth use of language and requires use of internet and advanced readings. Prerequisite(s): 6 hours of $200-l e v e l ~ S P A N . ~$
Notes: Lab Fee: $\$ 20$. Offered in spring.
340 A, B, C. Cooperative Education Experience (1) (2) (3). Provides on-the-job training in a professional field related to a student's major or career interests.
Prerequisite(s): Overall GPA 2.5 and minimum of 24 earned undergraduate semester hours. Placement objectives must be approved by Department Chair prior to enrollment.
Notes: For Spanish majors only. Courses may be repeated for credit; however, a maximum of 3 hours may be applied toward a degree in Modern Languages (Spanish). A grade of $S$ or $U$ is recorded. Offered fall, spring and summer.

## 351. Phonetics (3).

The study of Spanish phonetics, dialectology and correct pronunciation.
Prerequisite(s): 6 hours of 200-level SPAN.
Notes: Lab Fee: $\$ 20$. Offered in fall of odd years.
401. Survey of Hispanic Literature (4).

A survey of the literature of the Spanish-speaking world. Notes: Offered in fall of even years.
Prerequisite(s): At least 6 hours of 200 level SPAN, including SPAN 250.

## 499. Competency Exam (0).

Notes: A grade of S or U is recorded. Students must enroll for this exam after completion of 18 hours above 102 , no later than the second semester of the junior year, and before enrollment in any 500 -level course. Offered in fall and spring.

Prerequisite for all 500-level Spanish courses: Completion of 18 semester hours of Spanish or equivalent or permission of the Chair, Department of Modern and Classical Languages.
504. Cervantes (3).

This course will be a study of the life of Miguel de Cervantes and his masterpiece, Don Quijote de la Mancha. Prerequisite(s): SPAN 401 and 402.
Notes: Offered in spring of even years.

## 506. Spanish-American Literature to Modernism (3).

Readings of great literary figures of Spanish America from the Discovery (1492) until 1900. Representative authors include Ercilla, Sor Juana, Garcilaso, Olmedo, Bello, Sarmiento, Hernandez, Palma, Marti, Dario and Rodo. Prerequisite(s): 6 hours of intermediate Spanish; SPAN 301 strongly recommended.
Notes: Offered in fall of odd years.

## 507. Modern Spanish-American Literature (3).

Coverage of modern and contemporary Spanish American literature from modernism in 1888 to 1945.
Prerequisite(s): 18 hours of Spanish or equivalent or permission of instructor.
Notes: Offered in spring of odd years.

## 510. Topics in Language and Literature (3).

The content of the course will vary, depending on student interest and faculty expertise.
Notes: May be retaken for additional credit with permission of chair, Department of Modern Languages. Offered in fall of odd years.

## 521. Modern Drama (3).

A panoramic survey of the drama since Romanticism to the contemporary scene.
Prerequisite(s): 18 hours of Spanish or equivalent or permission of instructor.
Notes: Offered variable times.

## 560. Advanced Conversation (3).

This course is designed to increase the students' competencies in two language skills: comprehension and speaking.
Prerequisite(s): SPAN 313 or permission of instructor. Notes: Offered variable times.

## 575. Spanish Literature in Translation (3).

Readings and discussions of major works of Spanish literature in English translation. A knowledge of Spanish
is not required. Course content can vary depending on the instructor.
Prerequisite(s): Open to advanced undergraduates and graduate students. Undergraduate Spanish majors cannot use SPAN 575 toward the BA degree.
Notes: Offered variable times.
593. Advanced Oral and Written Communication (3). For students already able to understand, speak and write Spanish who wish to improve these skills while moving toward more natural expression in modern Spanish. Notes: Offered variable times.
595. The Short Story (3).

Readings of the Spanish-American writers of the short narrative beginning withthe early 19th-century's Esteban Echeverria and ending with today's short story masters. Prerequisite(s): 18 semester hours of Spanish or permission of chair, Department of Modern Languages.
Notes: Offered variable times.

## Special Education (SPED)

## 281. Introduction to Special Education (3).

Designed to introduce the student to the major areas of exceptionality.
Notes: SPED majors must complete course with grade of C or better. Offered in fall and spring.

## 292. Laboratory Experience with Exceptional Children

 (3:1:2).Designed to provide direct teaching experiences with disabled students under the supervision of a university instructor.
Notes: SPED majors must complete course with a grade if C or better. Offered in fall and spring.

## 391. Assessment (3).

This course is designed to teach students how to link formative and summative assessment with instruction. It is to be taken concurrently with EDUC 390 and with SPED 392.

Prerequisite(s): SPED 281 and admission to Teacher Education Program.
Notes: Offered in fall.
392. Principles of Teaching Exceptional Children (1:0:1). Provides field experience for linking formative and summative assessment to instruction. Course is taken as corequisite with EDUC 390 and SPED 391.
Prerequisite(s): SPED 281 and admission to Teacher Education Program.
Notes: A grade of S or U is recorded. Offered in fall.
492. Internship on Interdisciplinary Team (3).

Prerequisite(s): PSYC 305, SPED 392, 471, READ 461 and permission of the instructor.
Notes: A grade of S or U is recorded. Not offered this academic year.

SPECIAL EDUCATION/SPEECH
All courses in the College of Education numbered above 499 have a prerequisite of junior status or permission of the dean of the College of Education.
510. Behavior Analysis and Behavior Change (3:3:0).

Study of application of behavior managment techniques in educational, clinical and domestic settings.
Prerequisite(s): PSYC101 or graduate status.
Notes: Crosslisted with PSYC 510. Offered in spring and summer.

## 555. Career and Vocational Education for the Exceptional

 Learner (3).Designed to provide teachers with background knowledge and skills in designing and implementing a comprehensive career and vocational education program.
Prerequisite(s): Admission to Teacher Education Program. Notes: Not offered this academic year.
561. Characteristics of Children with Learning Disabilities (3).
An overview of the learning, behavioral and neurological characteristics of children with specific learning disabilities, including terminology and educational implications. Prerequisite(s): Admission to Teacher Education Program. Notes: Offered in fall.

## 562. Educational Procedures for Learning Disabilities

 (3).An in-depth study of remedial techniques, methods and materials for remediation of learning disabilities including non-verbal disorders and disorders of auditory language, arithmetic, reading, and spelling.
Prerequisite(s): SPED 561 or permission of instructor and Admission to Teacher Education Program.
Notes: Offered in summer.
575. Teaching Students with Severe Disabilities (3).

The course is designed for in-depth study of students with severe disabilities and appropriate curriculum goals, methods, materials, and research.
Prerequisite(s): SPED 582 or permission of instructor. Notes: Graduate students may enroll for certification. Offered in fall.

## 582. Mental Retardation (3).

An in-depth study of the characteristics of individuals with mental retardation including but not limited to intelligence variables, learning factors and family issues. Prerequisite(s): Admission to Teacher Education Program or graduate status.
Notes: Intensive Writing course. Offered in spring.

## 583. Children with Behavioral and Emotional Problems

 (3).Course considers child development, personality structure, and dynamics emphasizing an understanding of adjustment patterns and coping strategies for children with behavioral and emotional problems in the classroom and community.
Prerequisite(s): Admission to Teacher Education Program or graduate status.

Notes: Offered in spring.
585. Effective Teaching Practices for Students with Mild Disabilities (3).
Prepares special education majors to provide leadership in maximizing learning experiences of students with disabilities through effective teaching, curricullum planning, modification, and adaptations of teaching materials and use of technology.
Prerequisite(s): Admission to Teacher Education Program or graduate status. SPED 561 and SPED 583 or permission of instructor.
Notes: Offered in fall.

## Speech (SPCH)

## 201. Public Speaking (3).

An introduction to principles and procedures of speech communication with emphasis on speech preparation, delivery, and evaluation.
Notes: Lab Fee: \$5. Intensive Oral Communication course. Offered in fall, spring and summer.

## 203. Voice and Diction (3).

Introduction to the speech and hearing process with emphasis on production, phonetics, and voice improvement.
Notes: Lab Fee: \$5. Intensive Oral Communication course. Offered in fall, spring and summer.

## 325. Nonverbal Communication (3).

History, theory, and basic principles of nonverbal communication, with study of spatial and social dimensions, and body languages. Emphasis is on effective application in personal, business, and social contexts.
Notes: Offered in summer.
340 A, B, C. Cooperative Education Experience (1) (2) (3). Provides on-the-job training in a professional field related to a student's major or career interests.
Prerequisite(s): Overall GPA 2.5 and minimum of 24 earned undergraduate semester hours. Placement objectives must be approved by Department Chair prior to enrollment.
Notes: For Speech majors only. Courses may be repeated for credit; a maximum of 3 hou rs may be applied toward a degree in Speech. A grade of S or U is recorded.
Offered in fall, spring and summer.
351. Introduction to Communication Disorders (3). An overview of the profession of speech pathology. Includes an introduction to the identification, diagnosis, and intervention of communication disorders including articulation, language, voice, fluency, and hearing.
Notes: Offered in fall and spring.
352. Introduction to Phonetics (3).

A study of the development of phonology in the English language. An introduction to the International Phonetic Alphabet and practice in transcription of vowels and consonants.
Notes: Offered in fall and spring.
355. Anatomy and Physiology of the Speech and Hearing Mechanisms (3).
Study of the anatomical, physiological and neurological aspects of the speech and hearing mechanisms and their relations to problems of speech and hearing.
Prerequisite(s): SPCH 351.
Notes: Offered in fall.

## 360. Articulation and Phonological Disorders (3).

Study of theory, research, and therapeutic techniques for articulation and phonological disorders.
Prerequisite(s): SPCH 351, 352 and 355.
Notes: Offered in fall.
410. Introduction to Audiology (3).

A study of the fundamentals of hearing science. Includes anatomy and physiology of hearing, physics of sound, and administration and interpretation of hearing tests.
Notes: Offered in spring.
425. Stuttering (3).

Theories, diagnostic procedures and therapy techniques in the treatment of disfluent speech.
Notes: Offered in spring.
458. Language: Perspectives in Acquisition and Development (3).
Language acquisition and development through the
lifespan. Study of biological bases, major developmental theories, structure and semantic aspects and societal variations in content, form and use.
Prerequisite(s): SPCH 355.
Notes: Offered in fall.
460. Principles of Speech Pathology (3).

A study of the etiologies, diagnostic procedures, and the therapeutic techniques for the organic disorders of speech, including cleft palate, cerebral palsy, aphasia, and voice. Prerequisite(s): SPCH 352 and 355.
Notes: Offered in spring.
465. Language Disorders (3).

Study of theory, research, and therapeutic techniques for language disorders.
Prerequisite(s): SPCH 351, 352, 458.
Notes: Offered in spring.
469. Adult Aphasia and Related Language Disorders (3). Study of the causes of adult aphasia including syndromes and the evaluation process. Factors in recovery and prognosis will be reviewed. Principles of language treatment are studied with the opportunity for on-site case observation.
Prerequisite(s): SPCH 355.
Notes: Offered in spring.

## Sport Management (SPMA)

101. Introduction to Sport Management (3).

The purpose of the course is to introduce students to the multiple components of the sport industry. All major segments of the industry will be covered, giving the
student a strong orientation to the overall industry. Major concepts to be studied will include a background of the industry, business aspects for sport management, various segments of the industry, and professional preparation for a career in the sport industry.
Prerequisite(s): SPMA Majors or by permission of instructor.
Notes: Offered in fall.
225. Apprenticeship in Sport Management (1).

The purpose of this course is to provide sport management students the opportunity for direct training in sport management settings within the community.
Prerequisite(s): SPMA major, sophomore standing and grade of C or better in SPMA 101.
Notes: Offered in fall and spring.
235. Sport Event Management (3:2:2).

The examination of the organization, management, and evaluation of sporting events. Specific emphasis will be placed upon the economic impact of sporting events, the event bidding process, the event planning process, event logistics, event evaluation, and risk management policies and procedures.
Prerequisite(s): SPMA or PHED major.
Notes: Offered in fall and spring.
255. Research and Writing in Sport Management (3)

Course will examine basic research methodologies and statistics as they apply to the field of sport management. Further, the course will examine writing press releases, reports, and brochures.
Prerequisite(s): SPMA 101, SPMA major, and sophomore standing.
Notes: Offered in fall and spring.

## 392. Field Experience in SPMA (3:0:3).

The Field Experience course is designed to provide junior and senior sport management majors with direct training in the unique phases of a particular sport management setting and environment.
Prerequisite(s): Junior or Senior standing as a SPMA major, 2.0 or greater grade point average, grade of $C$ or higher in SPMA 101, approval of the Sport Management Program coordinator. Course must be completed with a C or better.
Corequisite(s): SPMA 398.
Notes: Offered in the fall, spring and summer.

## 398. Seminar in Sport Management (1:1:0).

The purpose of this course is to provide students the opportunity to discuss issues and express concerns they may have while performing the field experience required in SPMA 392. A second purpose of the course is to prepare students for successful entry into the sport management internship. Professional preparation, interviewing skills, and career opportunities will all be discussed.
Prerequisite(s): Junior standing as a Sport Management major, Grade of C or higher in SPMA 101, good academic standing, minimum 2.00 GPA , and approval of sport management program coordinator. Course must be completed with a C or better.

Corequisite(s): SPMA 392.
Notes: Lab Fee: \$20. Offered in the fall, spring and summer.

## 425. Current Issues in Sport (3:3:0).

Directed study in the current issues of the sport industry. Prerequisite(s): SPMA majors, Junior or Senior status. Notes: Offered in spring.
426. Administration of Sport Organizations (3:3:0). This course will provide students majoring in sport management and related fields with the opportunity to specifically apply contemporary management concepts to the operation of sport organizations.
Prerequisite(s): MGMT 321.
Notes: Offered in the fall.
492. Internship in SPMA (6:0:0).

Guided, practical experience requiring a minimum of 400 hours contractual work in an appropriate sport management environment. Course must be completed with a C or better.
Prerequisite(s): SPMA 392.
Corequisite(s): SPMA 398.
Notes: Offered in fall, spring and summer.
493. Internship in Sport Management (12).

The internship provides students the opportunity for guided practical experience in a sport management industry setting.
Prerequisite(s): Grade of C or higher in SPMA 392 and SPMA 398, Junior or Senior standing as a sport management major, minimum 2.0 GPA, approval of the Sport Management Program Coordinator. Course must be completed with a C or better.
Notes: Offered in fall, spring, and summer.

## Theatre Applied Technique (THRA)

120. Acting I (3).

Basic techniques of relaxation and concentration, textual analysis, physicalization, characterization and creation of a role. Development of the actor's craft through scene work emphasizing modern realism.
Notes: Intensive Oral Communication course. Offered in fall and spring.

## 121. Improvisation (3).

An experiential study of techniques of improvisation for the actor.
Prerequisite(s): THRT110, THRT210, THRA120 with a grade of $C$ or better in each course.
160. Stage Make-Up (1:2).

Principles and methods for the design and application of stage make-up.
Prerequisite(s): For Theatre majors and minors only or with permission of the chair.
Notes: Lab Fee: $\$ 15$. Offered in fall and spring.
170. Technical Theatre Practicum: Scene Shop (1:0:4).

Supervised work in scene construction and stage lighting.

Notes: Lab Fee: $\$ 10$. A grade of S or U is recorded. Offered in fall and spring.
171. Technical Theatre Practicum: Costume Shop (1:0:4). Supervised work in costume construction.
Notes: Lab Fee: $\$ 10$. A grade of S or U is recorded.
Offered in fall and spring.
173. Technical Theatre Practicum: House Managment (1:0:4).
Training and supervised work in the area of box office, house management and production publicity.
Notes: Offered in fall and spring.
220. Voice \& Movement for the Actor (3:6).

An experiential study of fundamental voice and movement techniques for the actor.
Prerequisite(s): THRT 110, THRT 210, THRA 120 with a grade of $C$ or better in each course.
Notes: Offered in fall and spring.
260. Stagecraft (3).

The study of technical problems of play production including design, construction and painting of scenery and properties, special effects and stage rigging with practical application to current theatre and dance productions.
Prerequisite(s): THRT 110, THRT 210, THRA 120, THRA
170 with a grade of $C$ or better in each course.
Notes: Lab Fee: $\$ 30$. Offered in fall and spring.

## 261. Stage Lighting (3).

An introduction to the principles of design and to the applied techniques of theatrical lighting.
Prerequisite(s): THRT 110, THRT 210, THRA 120, THRA
170 with a grade of $C$ or better in each course.
Notes: Lab Fee: $\$ 15$. Offered in fall.

## 262. Drafting for Theatre (3).

Training in elements of drafting specific to theatre \& stage design. Included are groundplans, elevations, perspectives, sections, orthographics and lighting graphics. Includes both manual and computer drafting techniques for theatre.
Prerequisite(s): THRT110, THRT210, THRA120 with a grade of C or better in each course.
Notes: Offered in spring of alternate years.

## 320. Acting II (3).

Development of the actor's craft through scene work from realistic, non-realistic and classical texts. More advanced techniques of textual analysis, characterization and creation of a role.
Prerequisite(s): THRA 220
Notes: Offered in spring.
330. Stage Management (3).

A study of the role of the theatrical stage manager; the development of organizational and management skills necessary for total production coordination. Prerequisite(s): THRT 110, THRT 210, THRA 120 with a grade of C or better in each course.
Notes: Offered in fall and spring.

## 331. Directing I (3).

A study of the fundamentals of play directing with practical application through the staging of short scenes. Prerequisite(s): THRT 110, THRT 210, THRA 120 with a grade of $C$ or better in each course.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.

## 360. Scene Design (3).

The study and application of the theories and techniques of the design of stage scenery; includes a survey of the history of design for the stage.
Prerequisite(s): THRT 110, THRT 210, THRA 120, THRA
170 with a grade of $C$ or better in each course.
Notes: Offered in spring of alternate years.
361. Costuming (3:2:2).

Study and application of the theories and techniques of theatrical costuming including a survey of historical dress, basic techniques of costume construction, and design for the stage.
Prerequisite(s): THRT110, THRT210, THRA120, THRA171
with a grade of $C$ or better in each course.
Notes: Offered in spring of alternate years.
362. Sound Technology and Design for Theatre (3). Introduction to sound equipment \& techniques used in theatrical productions as well as the application of these to sound design for theatre.
Prerequisite(s): THRT 110, THRT 210, THRA 120 with a grade of $C$ or better in each course.
Notes: Offered in spring of alternate years.
370. Practicum (1).

Individually supervised work in theatre performance and/or production.
Prerequisite(s): Permission of the Chair of Theatre and Dance.
Notes: May be repeated for credit for up to six hours. Offered in fall and spring.

## 411. Auditioning (1:0:2).

Preparation of student actors for graduate school and/or regional theatre auditions. Students will develop an audition portfolio and a personal strategic plan .
Prerequisite(s): Theatre major, performance emphasis, junior status.
Notes: Offered in spring.

## 412. Portfolio Development (1:1:0).

Examination of career options for design/technical students and development of resumes, portfolios and other materials required to pursue those career choices. Prerequisite(s): Theatre major, design technical emphasis, and junior status.
Notes: Offered in spring.
420. Acting III (3).

Development of the actor's technique in scenes taken from major historical periods of drama, emphasizing genres other than realism.
Prerequisite(s): THRA 320
Notes: Offered in fall.

THEATRE APPLIED TECHNIQUE/THEATRE EDUCATION
430. Directing II (3).

A study of directing theories and criticism with an individually supervised production of a one-act play for public presentation.
Prerequisite(s): THRA 330, 331.
Notes: Lab Fee: $\$ 40$. Offered in fall and spring.
471. Internship in Theatre (3).

A faculty supervised/coordinated work affiliation in theatre.
Prerequisite(s): Theatre major, junior status with permission of the Chair of the Department of Theatre and Dance. Notes: Offered in fall and spring.
570. Advanced Practicum (3).

Supervised direction or design of a full-length theatre production.
Prerequisite(s): Permission of Chair.
Notes: Offered in fall, spring and summer.

## Theatre Education (THED)

250. Introduction to Theatre Education (3).

An introduction to the theatre education profession including historical perspectives, introductory philosophical perspectives, and career orientation.
Notes: Offered in spring.
321. Creative Dramatics (3).

Exploration of the use of creative drama techniques and their use in the development of units and lesson plans for the theatre classroom and across the curriculum.
Notes: Offered in fall.
340. Exploring K-12 Theatre Education (3:3:0).

An exploration of National and State Standards in Theatre
Curriculum, curricular development and issues, and extra-curricular theatre/drama programs for K-12 students.
Prerequisite(s): THED 250.
Notes: Offered in spring.
350. Theatre and Dance for the Elementary Classroom (2:2:0).
Methods and materials for using theatre and dance as primary media for communication, inquiry, and insights in the elementary classroom. The content, function, and achievements of theatre and dance will be explored through incorporation of creative drama and creative movement with emphasis on the integration of these two arts into other content areas.
Notes: Offered in spring and summer.
391. Principles of Teaching Theatre (3:3:0). A survey of various research-based instructional planning methodology, classroom managment, curricula and evaluation of teaching and learning in theatre.
Prerequisite(s): THED 250, THED 340, admission to
Teacher Education Program.
Corequisite(s): THED 392 and EDUC 390.
Notes: Offered in fall.

## THEATRE EDUCATION/THEATRE THEORY/VISUAL COMMUNICATION

## 392. Field Experience Teaching Theatre (1:0:8).

This course uses laboratory experiences equivalent to 28 halfdays to lead theatre education students through an exploration and examination of various research-based programs of instructional planning, methodology, classroom managment and evaluation of teaching and learning to complement content covered in THED 391. Prerequisite(s): THED 250, THED 340, Admission to Teacher Education Program.
Corequisite(s): THED 391 and EDUC 390.
Notes: Offered in fall.

## Theatre Theory (THRT)

110. Introduction to Design for Theatre (3:3).

Introduction to the scenographic elements of theatrical production, with focus on the process, techniques, skills and talents of the designers who create the look of the production.
Notes: Offered in fall and spring.

## 210. Script Analysis (3).

Theoretical and practical analysis of play scripts from a global theatrical perspective.
Notes: Offered in fall and spring.

## 212. African-American Theatre (3).

A comprehensive study of several significant AfricanAmerican playwrights and their influence on the American (and world) theatre.
Notes: Offered in spring of alternate years.

## 298. Theatre Appreciation (3).

An introductory course designed to increase awareness and enjoyment of theatre through reading, attending plays, studying the historical relationship of theatre and society, and exploring the creative process of theatre (acting, designing, directing, etc.).
Notes: Not recommended for theatre majors. Offered in fall and spring.

## 310. Theatre History and Literature I (3).

A comprehensive survey of the development of world theatre and drama from their origins to 1800, including theatre architecture, theatrical conventions and theatre's relationship to society in each period.
Prerequisite(s): THRT 110, THRT 210, THRA 120 with a grade of C or better in each course.
Notes: Offered in fall.

## 311. Theatre History and Literature II (3).

A comprehensive survey of the development of world theatre and drama from 1800 to the present, including theatre architecture, theatrical conventions, and theatre's relationship to society in each period.
Prerequisite(s): THRT110, THRT210, THRA120 with a grade of C or better in each course.
Notes: Intensive Writing course. Offered in spring.

## 312. History of Dress and Decor (3).

A survey of the major trends in clothing, decor and furniture from ancient to modern periods. Emphasis will
be on the development of research skills and the application of period styles to theatrical productions.
Prerequisite(s): THRT 110, THRT 210, THRA 120 with a grade of $C$ or better in each course.
Notes: Offered in spring of alternate years.

## 315. Playwriting (3:3:0).

Developing the craft of playwriting through theoretical analysis and practical application of script structure, conflict/tension, effective dialogue, format, writing, workshops, rewrites, and evaluation.
Notes: Offered in fall.

## 340. Cooperative Education Experience in Theatre (3) (2)

 (1).A cooperative education experience in a specified area of theatre that provides on-the-job training in a professional field related to a student's major or career interest.
Prerequisite(s): Overall GPA of 2.5 , junior status, permission of Chair.
Notes: A grade of S or U is recorded. Offered in fall, spring and summer.

## 512. Dramaturgy (3).

A research-centered exploration of plays from a dramaturgical perspective. Students will serve as dramaturgs for departmental productions and design educational materials for out-reach into the school and community. Scripts will be examined from a variety of critical stances. Prerequisite(s): THRA 330, 331, THRT 310 and 311.

571, 572, 573. Independent Study (1) (2) (3).
An individually designed study or creative project specific to the aptitudes and interests of the student.
Prerequisite(s): Theatre major, junior status with permission of Chair of Theatre and Dance.
Notes: Course maybe repeated for credit.
590-599. Special Topics in Theatre (1, 2, or 3).
Extension of individual opportunities in theatre beyond existing departmental curriculum limits.
Prerequisite(s): Permission of chair, Department of Theatre and Dance.
Notes: Offered in fall and spring.

## Visual Communication (VCOM)

## 222. Introduction to Illustration (3:0:6).

Introduction to the materials and techniques used in the field of commercial illustration. Emphasis on technical skill and creative interpretation of subject matter through a variety of media.
Prerequisite(s): ARTS 101, 120.
Notes: Lab Fee: $\$ 15$. Offered in fall and spring.

## 251. Introduction to Graphic Design (3:0:6).

Introduction to concepts and techniques used in Graphic Design profession. Emphasis on dynamic organization of 2-D layouts utilizing shape, type, and image, as well as the development of professional presentation skills. Prerequisite(s): ARTS 102, ARTS 201 and ARTS 220 or permission of area coordinator.

Notes: Lab Fee: $\$ 20$. Offered in fall and spring.
258. Introduction to Typography (3:0:6).

Investigation of typographic elements stressing spatial organization, concept and presentation skills, including an historical study of letterforms and their application in visual communications.
Prerequisite(s): ARTS 102, ARTS 201 and ARTS 220 or permission of area coordinator.
Notes: Lab Fee: $\$ 25$. Offered in fall and spring.
261. Introduction to Computer Imaging (3:0:6).

Use of a computer in the context of visual design professions. Introduces student to skills to create effective and expressive images in a desktop publishing environment. Prerequisite(s): ARTS 101.
Notes: Lab Fee: $\$ 25$. Students may not receive credit for both ARTS 281 and VCOM261. Offered in fall and spring.
262. Introduction to Web Design (3:0:6).

Study, create and implement html (hyper text markup language) and Javascript web sites. The course will deal with issues of interactivity and communication delivery including publishing web content. Preparation of images and other content issues for the web will also be covered. Familiarity with general computer functions and web browsers is required.
Prerequisite(s): ARTS 281 or CSCI 101 or VCOM 261. Notes: Lab Fee: $\$ 15$. Offered in spring.
274. History of Graphic Design and Illustration (3:3:0). This survey course will focus on the history and evolution of style, technology, processes, and elements within graphic design and illustration. Industrial design examples will also be covered, with specific emphasis on design in Western culture.
Prerequisite(s): ARTH 175, ARTH 176.
Notes: Students may not receive credit for both ARTH 274 and VCOM 274.
288. Graphic Arts Production Practices (3:2:2).

Introduction to tools, processes and technologies used in graphic arts professions. Course material is covered through exercises, projects, and field experiences.
Prerequisite(s): VCOM 251 or permission of area coordinator.
Corequisite(s): VCOM 261 prerequisite or coresquisite. Notes: Lab Fee: $\$ 25$. Offered in spring.

## 322. Illustration I (3:0:6).

Further development of skills learned in VCOM 222. Emphasis on methods of research and conceptual development. Specific and directed communcications projects are used to foster conceptual problem-solving skills. Prerequisite(s): VCOM 222.
Notes: Lab Fee: $\$ 10$. Offered in fall.
All VCOM studio courses numbered above 324 have a prerequisite of junior status and the successful completion of the specialization portfolio review or permission of the Chair of the Department of Art and Design.
325. Illustration II (3:0:6).

Building on skills developed in VCOM 322, further exploration and discussion of various illustration techniqus and approaches, and their application within publishing fields.
Prerequisite(s): ARTT 300, VCOM 322.
Notes: Lab Fee: $\$ 15$. Offered in spring.

## 354. Graphic Design I (3:0:6).

Application of communication design principles learned in VCOM 251 and VCOM 258. Use of design elements, typography, and image to produce dynamic editorial and publication layouts.
Prerequisite(s): ARTT 300.
Notes: Lab Fee: $\$ 35$. Offered in fall.

## 355. Graphic Design II (3:0:6).

Through further application of visual communicatoin design principles, the course emphasizes alernative approaches to solving visual problems. Exercises encourage conceptual investigation and creative approaches to problem solution.
Prerequisite(s): VCOM 354.
Notes: Lab Fee: $\$ 15$. Offered in spring.
358. Intermediate Typography (3:0:6).

Design and organization of printed word and letterforms in combination with other graphic elements. Exploration of expermental typographic forms, interpretive design, and text and image relationships.
Prerequisite(s): VCOM 354.
Notes: Lab Fee: $\$ 20$. Offered in fall and spring.

## 361. Digital Illustration (3:0:6).

Studies in advanced computer illustration techniques
using object and pixel-based image production software. Problems center on both 2D and 3D renderings for illustrative and professional applications.
Prerequisite(s): ARTS 281 or VCOM 261, ARTT 300.
Notes: Lab Fee: $\$ 35$. Offered in spring.

## 424. Illustration III (3:0:6).

Emphasizes conceptual and stylistic development of imagery related to applied illustration projects.
Prerequisite(s): VCOM 325.
Notes: Lab Fee: $\$ 20$. Offered in fall.
444. Design Practicum (3:0:8).

The practicum class provides "real world" design problems. In directed situations, students are responsible for the full range of project management, from client interaction, problem definition, and production to finished printed or electronic materials.
Prerequisite(s): ARTT 300, junior standing in VCD classes. Portfolio required for admission to class.
Notes: Lab Fee: $\$ 15$. Offered in fall and spring.

## 453. Corporate Identity (3:0:6).

Comprehensive study and production of corporate identity systems, including the design and development of logos, identity standards, and related collateral materials. Prerequisite(s): VCOM 354.
Notes: Lab Fee: $\$ 25$. Offered in fall.
455. Three-Dimensional Graphic Design (3:0:6).

Application of communication graphics to threedimensional form. Emphasis on product packaging, promotion, environmental graphics, signage and other formats.
Prerequisite(s): VCOM 355.
Notes: Lab Fee: $\$ 30$. Offered in fall.
458. Experimental Typography (3:0:6).

Investigation of typography as an innovative art form. Emphasis on letterform imagery and experimental formats.
Prerequisite(s): VCOM 355, VCOM 358.
Notes: Lab Fee: $\$ 20$. Offered in spring.
463. Sequential and Multimedia Design (3:0:6).

Exploration and use of the computer in sequential and multi-media productions. Included are investigations of several electronic media, including sound, still image and short form video.
Prerequisite(s): ARTT 300 or permission of area coordinator.
Notes: Lab Fee: $\$ 30$. Offered in fall.

## 486. Senior Thesis Proposal (1:1:0).

Focus on the preparation and approval of a project proposal which serves as the basis for research in VCOM 487.

Prerequisite(s): VCOM 355.
Notes: Lab Fee: $\$ 10$. Offered in fall.
487. Senior Thesis (3).

Students pursue solutions to a visual communications problems individually proposed in VCOM 486.
Prerequisite(s): VCOM 486.
Notes: Lab Fee: $\$ 40$. Offered in spring.
578. Professional Portfolio and Practices (3:0:6).

The development of a professional design portfolio.
Course also covers preparation of a resume, professional standards and practices, legal issues, and other items relevant to a practicing design professional.
Prerequisite(s): VCOM 486.
Notes: Lab Fee: $\$ 35$. Offered in spring.

## Wellness (WELL)

## 301. Wellness: Health Risk Assessment and Manage-

 ment (3).Health risk evaluation and identification of relationships among nutrition, anthropometric measurements, substance abuse, emotions, stress, and health. Notes: Offered on demand.

## Women's Studies (WMST)

## 300. Introduction to Women's Studies (3).

An interdisciplinary, multicultural study of women's roles and their contribution to the liberal arts. Historical, anthropological, biological, and artistic influences affecting women will be examined. Recommended for
students with sophomore standing or higher.
Notes: Offered in spring.
310. History of Women in America (3).

Beginning with the colonial period and extending through the contemporary women's movement, this course will examine the role women have played in the development of American Society.
Notes: Offered variable times.
330. Women and Literature (3).

This course draws upon the entire body of writing (fictional and non-fictional) by and/or about women. In different semesters, it may focus on diffeent themes, periods, genres, authors, or issues related to women.
Prerequisite(s): WRIT 102 or CRTW 201.
Notes: Offered in spring/odd years.
337. Women and Global Politics (3).

Examines the role of women in the sphere of global politics. Course assumes some knowledge of the basic issues confronting women in contemporary global context.
Prerequisite(s): WMST 300 or PLSC 205 or PLSC 207 or permission of instructor.

## 371. Women and Politics in the US (3).

Women, as a special interest group, and their role in the American political process.
Prerequisite(s): PLSC201 with grade of C or better, or WMST 300 with grade of $C$ or better or permission of instructor.
Notes: Offered on demand.
450. Special Topics in Women's Studies (3).

In-depth or specialized inquiry into women's studies topics or issues.
Prerequisite(s): Permission of instructor.
Notes: Offered in fall, spring and summer.
477. Women in Art (3).

Consideration of the images of women portrayed through art. The impact of feminism on art, and contributions of women artist, designers, and architects to the history of art.
Notes: Cross-listed with ARTH 477. Offered in fall and spring.
504. Psychology of Women (3).

Intensive study of research and issues in psychology that pertain specifically to women.
Prerequisite(s): PSYC 101.
Notes: Offered fall and spring.
507. Women's Health Issues (3).

A study of the problems, questions, and issues of women's health as they relate to personal and community health and well-being.
Prerequisite(s): Junior status
Notes: Cross-listed with HLTH 507. Offered in fall of odd years.
553. Feminist Theory (3).

This course is designed to acquaint students with the variety of ideas, methods and issues raised within contemporary feminist literature.
Prerequisite(s): WRIT 102 or CRTW 201 or graduate status.
Notes: Offered on demand.

## Writing (WRIT)

WRIT 101 is a prerequisite for WRIT 102 and CRTW 201. WRIT 102 or CRTW 201 is a prerequisite for all WRIT courses above 102. Students must attain a grade of $C$ or better in these courses.
101. Composition (3).

Writing assignments beginning with personal experience narratives and progressing to academic essays incorporating paraphrased and quoted material from multiple sources. Critical reading and review of grammar and usage.
Notes: Offered in fall and spring.
102. Composition (3).

A continuation of 101 with emphasis on argumentative and persuasive writing, essay examinations, and the library research paper.
Prerequisite(s): WRIT 101 with a grade of C or better.
Notes: Offered in fall, spring and summer.
111. Writing for Non-native Speakers (1).

Designed for non-native speakers of English. Course will address sentence-level issues (verb tenses, prepositions, idioms, articles) and the structure of the American essay. Notes: Cannot be counted toward graduation requirements. A grade of S or U is recorded. Offered in fall.

## 300. Rhetorical Theory (3).

An historical survey of rhetorical theory as it relates to written texts, beginning with classical rhetoric but with special emphasis on the twentieth century.
Prerequisite(s): WRIT 102.
Notes: Intensive Writing course. Offered in spring of odd years.

## 307. Fiction Writing (3).

A study of literary devices and techniques designed to provide the writer with basic fiction writing skills.
Prerequisite(s): WRIT 102.
Notes: Offered in fall and spring.

## 316. Poetry Writing (3).

An introductory workshop course focusing on student poems: writing, discussing, critiquing, and rewriting. Emphasis also on reading contemporary poetry. Introduction of literary magazines and publications.
Prerequisite(s): WRIT 102.
Notes: Offered in fall and spring.
350. Introduction to Composition Theory and Pedagogy (3).

An overview of contemporary theory about the learning

WOMEN'S STUDIES/WRITING
and teaching of composition, plus intensive work in writing, revising, and editing. Designed primarily for students who are pursuing teacher licensure.
Prerequisite(s): WRIT 102 required; junior status recommended.
Notes: Intensive Writing course. Offered in the fall.
351. Advanced Non-Fiction Writing Workshop (3).

An advanced workshop course in writing non-fiction essays.
Prerequisite(s): WRIT 102.
Notes: Intensive Writing course. Offered in the spring of even years.

431, 432, 433. Academic Internship in Writing (1) (2) (3). Practical experience in selected activities related to writing skills gained in the major.
Prerequisite(s): 12 hours of ENGL (including ENGL 300) and or WRIT courses beyond WRIT 102 and a 2.5 GPA or permission of Department Chair.
Notes: Open to English majors only. Offered in fall and spring.

461, 462. Internship in Science Communication (3) (3). Practical experience in science communication through work in area governmental and business institutions under the supervision of program faculty.
Prerequisite(s): Prior approval from program director and Dean of the College of Arts and Sciences.
Notes: Offered in fall and spring.
465. Preparation of Oral and Written Reports (3).

The practical study of audience analysis, purpose, format, organization, and style in written and oral reports. Prerequisite(s): Junior status and C or better in WRIT 102. Notes: Intensive Writing and Intensive Oral Communication course. Offered in fall, spring and summer.
500. The Theory and Practice of Tutoring Writers (3:3:1). Advanced study of the theory and practice of tutoring writers with particular attention to the composing process, theories of learning in a conference setting, and rapid analysis of student writing with the goal of engaging student writers in posing solutions to their writing problems.
Prerequisite(s): Completion of CRTW 201 or permission of department chair or graduate standing.
Notes: Offered in fall.

## 501. Writing for Electronic Publication (3:3:0).

A discussion of and hands-on workshop in writing for electronic publication, including the rhetorical, contextual, and ethical issues involved in creating such publications; the criteria for evaluating such publications; and the skills needed to create such publications.
Prerequisite(s): CRTW 201 (co-requisite or pre-requisite) or WRIT intensive course or graduate standing.

## 507. Short Story Writing (3).

An examination of contemporary short fiction and completion of 10,000 words comprising two to four original works.
Prerequisite(s): WRIT 307 or graduate status.

WRITING
Notes: Offered in fall and spring.
516. Poetry Writing II (3).

An advanced workshop course similar to WRIT 316 in format. More critical analysis of established poets.
Additional work on traditional forms.
Prerequisite(s): WRIT 316 or permission of instructor or graduate status.
Notes: Offered in fall and spring.
530. Script Writing (3).

A workshop course in media script writing with an emphasis on theatre.
Prerequisite(s): WRIT 102 or graduate status.
Notes: Offered in the spring of odd years.
566. Technical and Scientific Writing (3).

Intensive training in organization, format, and style of scientific and technical writing.
Prerequisite(s): WRIT 102 or CRTW 201; and either ENGL 380 or successful completion of a $200-$ level or higher course in BIOL, CHEM, CSCI, ENVS, GEOG, GEOL, GRNT, NUTR, MATH, PHYS, PSYC, SCIE, or WELL, or permission of the instructor; or graduate status.
Notes: Intensive Writing and Intensive Oral Communication course. Offered in spring.

