

COURSES

COURSES AVAILABLE Test

COURSES DIRECTORY Test

BS

AN101 **Intro to Cultural Anthropology** **3.0 Credits**
Introduces students to cultural Anthropology's key concepts, principles, and methods. Draws on simulated field work experiences in rural Mexico. Addresses GLE Learning Outcomes Social Sciences (SS), Critical Thinking (CT), Intercultural Knowledge (IK) and Information Literacy (IL).

AN105 **Culture Through Film** **3.0 Credits**
An introductory level course that examines wide-ranging cultures through the medium of ethnographic film. Through the use of ethnographic film, students will be able to visualize issues that correlate directly to the discipline of anthropology: culture, ecology, multiculturalism, and discourse. Addresses GLE Learning Outcomes Social Sciences, Critical Thinking and Information Literacy.

AN113 **Introduction to Archaeology Lab** **4.0 Credits**
Examines theory and methods of archaeological research and their underlying principles through the analysis of selected monographs and readings. Includes a laboratory section in which the examination and interpretation of research collections excavated by faculty and student members of the Department will be carried out. Field experience will be included when possible.

AN113L **Introduction to Archaeology Lecture** **0.0 Credits**
Examines theory and methods of archaeological research and their underlying principles through the analysis of selected monographs and readings. Includes a laboratory section in which the examination and interpretation of research collections excavated by faculty and student members of the Department will be carried out. Field experience will be included when possible.

AN120 **Culture and International Business** **3.0 Credits**
Examines the culture of business from the perspective of business owners and workers and the impact of culture on trade internationally as well as the differences in manufacturing in the U.S. and non-Western countries, especially China. Students will consider the role of finance and the different ways factories are organized in other countries.

AN137 **Art, Culture, and the Museum** **3.0 Credits**
Examines the relationships between art and culture, and particularly how museums have become a key medium for displaying and exploring this relationship. Students will learn to understand less than obvious dimensions of objects (beyond the three physical dimensions of height, width, and depth) and will explore these through the design of a digital museum exhibit. Addresses GLE Learning Outcomes Art/Design (AD), Critical Thinking (CT), Applied Learning (AL), and Creative Thinking (CV).

AN205 **Culture of Money** **3.0 Credits**
Examines how notions of value, such as the idea of money, credit, and debt, have evolved over the past 5000 years. Compares how anthropologists, economists and other social scientists have understood and studied money and its social context. Students will conduct a simple fieldwork project in the community as one of the course assignments. Addresses GLE Learning Outcomes Social Sciences, Critical Thinking and Inquiry & Analysis.

AN213 **Field Archaeology** **4.0 Credits**
Provides experience in basic archaeological techniques: site survey, excavation techniques, archaeological control, sampling techniques, mapping, analysis of pottery, tools and faunal remains, classification, interpretation, scientific method, and research design. Prerequisite: permission of instructor. Summer, option for required practicum

AN216 **Human Sexuality** **3.0 Credits**
Examines the subject from biological and behavioral perspectives. Separates misinformation about sexuality from scientific data. Reviews cross-cultural options for expression of sexuality which can be integrated into adult behavioral patterns. Prerequisite: sophomore, junior or senior level.

- AN217 Archaeology of the Unknown 3.0 Credits**
Studies the archaeological evidence of alleged pre-Columbian, extraterrestrial, and hypothetical origins of various human cultures. Phenomena such as the Nazca lines, Sasquatch, Atlantis, and psychical archaeology are considered.
- AN225 Women Around the World 3.0 Credits**
Compares and contrasts women's lives across time and space. Begins by discussing our hunting and gathering legacy before going on to examine the broad range of experiences women have in the modern world. Richly illustrates main theoretical points with examples from Latin America, Africa, Asia, and North America.
- AN226 Magick & Witchcraft 3.0 Credits**
This course introduces students to magick from an anthropological perspective. It examines the history of the study of magick, the inter-cultural definition of magick, and various types of magick before going on to concentrate on magick as a positive, Earth-centered religion that has much in keeping with pre-Christian and Wiccan belief systems. **DISCLAIMER** Anthropology, simply defined, is the comparative study of human beings and their cultures. Each culture has as an essential part of it a spiritual component as well as a set of beliefs and rituals associated with this spirituality. This course investigates both the theoretical and applied sides of magick and witchcraft. Studying the rituals and beliefs associated with magick is not the same as adopting magick as a faith. Not unlike learning the dances or songs of another culture, learning about another culture's beliefs and rituals helps us to more fully understand and appreciate the culture itself. The course satisfies the following General and Liberal Education requirements: Social Science Knowledge and Understanding, Information Literacy Learning Outcomes, and Inquiry and Analysis Learning Outcome.
- AN240 Contagions, Epidemics & the 3.0 Credits**
This course examines the return of contagious diseases that we have long thought were conquered and the emergence of new epidemics around the world. We will focus on how public health workers, epidemiologists, and anthropologists understand and attempt to control a wide range of public health problems in contemporary societies around the world with a mix of biomedical, public health, and social science approaches. Addresses GLE Learning Outcomes Social Sciences (SS), Critical Thinking (CT) and Critical Reading (CR).
- AN245 Living and Working Abroad 3.0 Credits**
Prepares students from all majors to live, work, and/or study abroad. The course seeks to enhance students' sensitivity to cultural differences and to refine skills for circumventing the barriers the differences may cause. It prepares students to weather culture shock and to avoid the pitfalls of ethnocentrism and xenophobia. A special set of exercises helps students to learn how to search for and secure work overseas. Addresses GLE Learning Outcomes Social Sciences, Career Exploration and Information Literacy.
- AN325 Medical Anthropology 3.0 Credits**
Examines how anthropologists have approached cultural differences in how people understand illness and disease as well as the different way that people around the world have tried to treat health problems. Readings, discussions, and films will compare and contrast medical systems in Africa, Asia, New Guinea, Latin America, Native America, and the contemporary U.S. The course considers how medical therapies "work" as well as how medical students are socialized to be effective physicians. Addresses GLE Learning Outcomes Social Sciences, Critical Thinking and Inquiry & Analysis. Prerequisites: AN101 or AN201 or BI101 or permission of instructor
- AN331 Violence and Aggression 3.0 Credits**
Investigates theories that account for violence. Biological and cultural factors which affect how aggression is expressed. Types of violence discussed. Addresses GLE Learning Outcomes Social Sciences (SS) and Critical Thinking (CT).
- AN399 Independent Study in Anthropology 3.0 Credits**
Offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the office of the Dean or Dean's designee. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course. Prerequisite: 3.00 cumulative grade point average.
- AN400 Readings in Anthropology 0.0 Credits**
Encourages motivated students to pursue specialized knowledge in their major field. Required for students doing a Senior Thesis in Anthropology. Prerequisites: Anthropology major and permission of instructor.

- AN424 Advanced Archaeology Laboratory 3.0 Credits**
Examines techniques of laboratory analysis of archaeologically recovered data. Emphasis will be on practical hands-on experience with actual artifactual materials: lithic, ceramic and biological. Prerequisite: AN113 or permission of instructor.
- AN495 Senior Internship in Anthropology 0.0 Credits**
Field experience in a learning situation. Only students who have demonstrated the ability to work independently and to present themselves in a professional manner are eligible for internships. Placement is arranged by a student in consultation with an Anthropology faculty advisor. Prerequisites: Anthropology major and permission of instructor. Option for required practicum.
- AN499 Independent Study in Anthropology 3.0 Credits**
Offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or Dean's Designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the office of the Dean or Dean's Designee. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course. Prerequisite: 3.00 cumulative grade point average.
- CJ101 Crime and Justice in America 3.0 Credits**
This course provides an overview of the various facets of the criminal justice system for the non-criminal justice major. Topics that represent points of harmony or conflict within society, such as processing of offenders, punishment and its alternatives, current issues in criminal justice, and the future of the criminal justice system will be examined. Addresses GLE Learning Outcomes Social Sciences (SS), Critical Thinking (CT), and Information Literacy (IL).
- CJ201 Police Work 3.0 Credits**
The nature and techniques of police work in a changing society. Historical perspectives, consideration of major contemporary issues including race and ethnicity, disorder and community relations, and the impact of cultural diversity on law enforcement. Personnel systems, organization and management, police operations and discretion, police culture and behavior, ethics and deviance, civil liability and the future of policing.
- CJ203 Juvenile Justice 3.0 Credits**
Examines the juvenile justice system in the United States, the measurement of delinquency (types of offenders and trends), juveniles and the police, intake and pre-adjudicatory processing, classification and preliminary treatment, waivers and other alternatives, prosecutorial decision making in juvenile justice, the adjudicatory process and dispositional alternatives, the legal rights of juveniles, nominal sanctions, warnings, diversion and standard probation, juvenile probation and community-based cased alternatives, and juvenile corrections, custodial sanctions and parole, Addresses GLE Learning Outcomes Social Sciences (SS), Critical Thinking (CT) and Information Literacy (IL).
- CJ210 Courts and Criminal Procedure 3.0 Credits**
This courses examines major aspects of the U.S. criminal court system such as jurisdiction, policies, and procedures of state and federal trial and appellate courts in the administration of criminal justice. The course includes an examination of the guiding principles of criminal law and procedures. The politics of judicial selection and judicial decision-making, ethnic relations that affect the law will also be discussed. Extensive consideration of past and current constitutional issues through review of relevant U.S. Supreme Court decisions.
- CJ221 Corrections 3.0 Credits**
An introduction to sociological theory and research of prisons and community-based correctional programs. Attention is given to both classical and contemporary analyses of such issues as management, prison violence, subcultures and penal policy.
- CJ301 Criminal Investigation & Evidence 3.0 Credits**
The art and science of criminal investigation, including arrest techniques and the detection and documentation of crime, crime scene procedures, collection and preservation of evidence, interviews and interrogations, techniques of surveillance, and presentation of evidence in court. Covers ethics, the basic concepts of criminal law and the rules of evidence, principles of criminal responsibility, elements of major crimes, burden of proof and presumptions. Includes the implications of the Amendments to the U.S. Constitution on such matters as police practices, the investigator's role in court, illegal search and seizure, and right to counsel. Also covers the politics of race relations by examining key court decisions. Prerequisite: CJ201 must be completed with a grade of C or higher.

CJ304 Specialty Courts

3.0 Credits

This course is an introduction to the problem-solving court model in which students will analyze the factors contributing to their development, the goals of the problem-solving courts, the features and functionality of these institutions, and the roles of the various professionals. Students will be asked to explore the potential legal and ethical implications of specialty courts and compare their effectiveness with that of the traditional court model. The course will conclude by considering the future of problem-solving courts in the United States. Prerequisite: CJ210.

CJ306 Family Law and the Justice System

3.0 Credits

This course is designed to introduce students to the social issues in family law. Students explore how the justice system has been used to define “family” and to deal with family issues such as the creation of familial (de facto) relationships, procreation, parental rights and responsibilities, resolution of family disputes and conflicts, and the dissolution of familial relationships. The unintended and intended consequences of family law over time and sociocultural context will be examined. Prerequisites: SO101 and CJ210.

CJ310 Community Corrections

3.0 Credits

This course is designed to present students with an introduction to the field of community corrections. Topic areas include sentencing, probation, parole, fines, community service, and intermediate sanctions (intensive supervision, house arrest/electronic monitoring, boot camps). We focus on such issues as the punishment vs. control argument, community justice models, special offender populations (drug offenders, sex offenders, mentally ill offenders, offenders with AIDS), and the cost effectiveness of community corrections. Prerequisite: CJ221 or permission of the instructor.

CJ330 Special Topics in CJ

3.0 Credits

This course provides an in-depth examination of a limited or specialized area within the criminal justice field. The content of the course will vary according to the area of specialization of the instructor and the interest of the students. Students may repeat this course for additional credit if the content is different. Prerequisites: CJ101 and SO101 or permission of the instructor.

CJ340 Gender, Race, and Justice

3.0 Credits

Empirical research and theoretical perspectives form the basis of this seminar’s exploration of gender, race, and crime and the implications of criminal laws, criminal justice practices and programs. The social status of racial/ethnic minorities, women and girls, and men and boys are explored in relation to victimization, perpetration of crime, policing, courts, sentencing, corrections and the juvenile justice system. The course includes an examination of the intersection of gender and race and the underlying historical, social, economic, and cultural conditions that impact women and racial/ethnic minorities. Special issues covered include hate crimes, sexual violence, substance use, racial profiling, and disproportionate minority confinement. Prerequisites: SO205, CJ101, or CJ203 or permission of the instructor.

CJ345 Criminology

3.0 Credits

A critical study of the qualitative and quantitative methods and the classical and contemporary theories used to research and explain crime as a social phenomenon. The course also explores ways that our knowledge about crime can guide social policy. Prerequisites: SO318.

CJ400 Rehabilitation of the Offender

3.0 Credits

This course integrates theoretical knowledge from biological, psychological and sociological perspectives with a deeper understanding of the lives of criminal offenders to attain a greater appreciation of the complexity of crime and criminal behavior. The course includes examinations of the causes and effects of crime on the biological, psychological and social levels, as well as the interactions among those levels. Students learn, among other things, biological, psychological, family, neighborhood, and societal risk factors of offending; how criminals think; and how the tendency to commit delinquent and criminal acts develops in the individual. Prerequisite: CJ221 and CJ345.

CJ410 Criminal Law

3.0 Credits

This course examines the structure, function, and principles of criminal law, including the acts, mental state, and attendant circumstances that are necessary elements of the crime. Topics include principles of criminal law, principles of criminal liability, complicity, inchoate crimes, defenses, justifications, excuses, crimes against persons, crimes against property, and crimes against public order. Prerequisite: Sophomore Status.

CJ412 Sex Crimes

3.0 Credits

This course examines sexual offenses that have historically been determined at the intersection of social, political, ideological, and legal factors more so than any other category of crime. Sexual offenses are a specific type of offending in which understanding is often formed through personal experience, the experiences of others, or media coverage. Students will be introduced to a broad range of sex crimes and offenders as well as the unique criminal justice challenges associated with responding to these offenses. Prerequisite GLE230.

CJ420 White Collar Crime 3.0 Credits
 This course is a study of the violent and non-violent crimes perpetrated by white collar criminals and corporations that have significant physical, fiscal, and social costs. Various forms of white-collar crime will be examined and illustrated through case studies. Legal issues, including question of corporate liability, will be reviewed. The course will also review and analyze problems associated with the investigation, prosecution, and sentencing of white-collar offenders. Prerequisites: Sophomore standing.

CJ430 Victimology 3.0 Credits
 This course is designed to introduce students to the topic of victimology and the scientific study of victims. The course will focus only on criminal victimization, and the physical, emotional, psychological, and financial harm suffered by victims. The course includes an examination of victim-offender relationship, interactions among victims, the criminal justice system, and other social institutions and groups that victims encounter Prerequisites: SO318 or PS261.

CJ470 Senior Criminal Justice Seminar 3.0 Credits
 This capstone course provides a critical analysis of many issues in the criminal justice system. Consideration is given to multiculturalism, women in the criminal justice system, ethics, corruption, justice/injustice, major forces that shape the system, crimes, excessive force, sentencing, jail overcrowding, victimology and public policy. Prerequisites: Senior Criminal Justice major, CJ345.

CJ495 Internship in Criminal Justice 0.0 Credits
 Internship in Criminal Justice (1-15 credits). Criminal Justice majors can obtain knowledge gained from working in a criminal justice agency with professionals working in the field. Students gain an appreciation of criminal justice and enhance their understanding of the field while preparing for a possible career in criminal justice. Prerequisites: CJ201 or approval from a full-time Criminal Justice faculty member, the student and faculty member must carefully design the program prior to enrolling for the course.

CJ499 Independent Study Criminal Justice 3.0 Credits
 Offers the student an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor. Students are permitted to take this course one time only, and the course will count as an elective in the Criminal Justice major. Prerequisites: Junior standing, cumulative GPA of 3.0.

COUN501 Orientation to Counseling 3.0 Credits
 This course provides an orientation to the counseling profession with a focus on understanding the history and development of clinical mental health counseling and the counseling profession as a whole. Addressed in this course is the history and philosophy of the counseling profession. Current trends will be explored within the context of the counselor's role in clinical mental health settings. This course will also provide an understanding of the role of licensure, credentialing, and professional organizations in the counseling profession.

COUN502 Skills and Techniques 3.0 Credits
 This course acquaints the novice counselor with the basic counseling skills necessary for counseling and consulting in a multicultural society. The basic counseling skills will be discussed, demonstrated, and practiced. Students will learn how to implement these skills within a variety of contexts and with clients of varying backgrounds. It is expected that students actively participate in role-plays, self-assessment, and other forms of experiential learning throughout the duration of the course.

COUN503 Theories of Counseling 3.0 Credits
 The foundational theories of counseling are addressed in this course. Students will learn and demonstrate an understanding of the relationship between a given theory and how it serves to inform counseling interventions. Specific attention will be directed toward key theoretical constructs that serve as a foundation for working in clinical mental health settings.

COUN504 Multicultural Counseling 3.0 Credits
 Students will learn how issues of race, ethnicity, socioeconomic status, culture, gender, sexual orientation, physical/psychological ability, religion, and age impact the counselor, client, and counseling relationship. This course also addresses how the mental health delivery system is based on Eurocentric delivery systems which often disenfranchise cultural minorities. Culturally sensitive counseling strategies are introduced to provide students with a conceptual and practical framework for respectfully working with diverse populations.

COUN505 Counseling Ethics 3.0 Credits
 This course focuses on assisting students with the understanding and application of the ethical principles that guide clinical mental health counseling practice. Students will gain knowledge of the ethical guidelines that inform professional behavior, the legal aspects

of counseling practice, and the complexity of applying ethical and legal principles to practice. Ethical decision-making models will be implemented in the course alongside relevant case studies to assist students in developing the necessary skills to make sound ethical decisions.

COUN506 Advanced Counseling Skills 3.0 Credits

This course has been designed to enhance counselor skills sets, develop a clinical frame of reference for how change is facilitated within the context of a counseling relationship, and develop intentional and strategic approaches for how to conceptualize client concerns in a holistic manner. The focus will be on building competencies via a variety of experiential and interactive methods.

COUN507 Counseling Children 3.0 Credits

This course focuses on developing the specialized knowledge and skills required for counseling children and adolescents. Using a background in human development, diversity, and ecological theories, students examine issues and needs related to counseling children and adolescents. Particular attention is given to developing the advanced skills and techniques needed to effectively work both individually and in groups with children and adolescents, including behavioral, play therapy, and bibliotherapy.

COUN508 Developmental Theories 3.0 Credits

A study of human development over the lifespan from conception to death and its implication for the theory and practice of counseling. This course will provide an overview of human development throughout the lifetime in family, social, and cultural contexts, being mindful of how intersecting internal and external factors impact development. Major theoretical approaches and factors influencing development will be explored in the context of clinical mental health practice.

COUN509 Group Process and Dynamics 3.0 Credits

This course has been designed to assist the student in understanding the nature of group development, group dynamics, group counseling theory, and ethical issues pertaining to group work. Students will have the opportunity to apply their growing knowledge of group counseling by practicing the skills necessary for proposing, forming, leading, and evaluating groups in a variety of counseling work settings. Students can expect to spend considerable class time participating in a small-group experience, that will be a minimum of ten hours.

COUN510 Mental Health Diagnosis 3.0 Credits

This course addresses individual diagnosis from a perspective that is inclusive of biological, developmental, environmental, cultural, and interpersonal factors. It will provide students with a broad theoretical base for understanding mental health disorders and their diagnostic criteria through the use of the DSM-5-TR. Students will also develop an understanding of how treatment planning is done in relation to specific diagnostic categories.

COUN511 Counseling Families 3.0 Credits

This course provides an introduction to counseling couples and families. It is designed to familiarize students with the underlying theories, concepts, and techniques of several family counseling models. Students will learn to implement these models as part of their theoretical approach when providing assessments, developing treatment plans, and engaging in counseling services.

COUN512 Substance Use Treatment 3.0 Credits

This course is designed to provide students with knowledge related to addiction and the treatment of substance-related and addictive disorders. Theory-based approaches to working with various substance-related and addictive disorders will be taught, with an emphasis on theoretical application with individuals, couples, families, and groups. Co-occurring disorders will also be addressed.

COUN513 Crisis and Trauma 3.0 Credits

This course will examine the impact of various types of crises and trauma on individuals, families, and on society as a whole. Students will learn foundational principles and models of crisis and trauma counseling as well as how to implement these when working with clients. In addition to crisis intervention, students will learn about prevention measures and how clinical mental health counselors can utilize their skillsets to decrease the likelihood of trauma and lessen the impact after it has occurred.

COUN514 Practicum 3.0 Credits

This course provides an opportunity for the development of basic individual and group counseling skills under supervision. The student receives a grounding in the broader role of a professional counselor within the scope of an approved clinical site. In addition to building counseling skills, students will have the opportunity to learn the roles of clinical and support personnel, engage in treatment planning and other forms of clinical case documentation, and receive regular feedback from approved site supervisors and faculty supervisors to develop clinical skills.

COUN515 Appraisal in Counseling**3.0 Credits**

This course is designed to provide students with an introduction to the basic elements of testing, assessment, and evaluation. Specific attention will be given to the principles of psychometrics, selection of appropriate measurement instruments, test administration, scoring, interpretation, and communicating those results to clients. A significant portion of the course will be devoted to an overview of tests and assessments counselors are likely to encounter in practice.

COUN516 Internship I**3.0 Credits**

This course provides an opportunity for the continued development of counseling and counseling related skill sets under supervision. Students will engage as interns at an approved site placement and will engage in a broad range of counseling and counseling related activities. Students in this course will build from the knowledge and skills developed in the practicum course.

COUN517 Research for Counselors**3.0 Credits**

This course is designed to provide students with principles and methods of research design, statistics, and program evaluation. Analysis, interpretation, and appropriate implementation of counseling data and research will be included. Students will engage in hands-on learning and will have the opportunity to design a counseling related research study.

COUN518 Internship II**3.0 Credits**

This course provides an opportunity for the continued development of counseling and counseling related skill sets under supervision. Students will engage as interns at an approved site placement and will engage in a broad range of counseling and counseling related activities. Students in this course will build from the knowledge and skills developed in the internship one course.

COUN519 Internship III**3.0 Credits**

This course provides an opportunity for the continued development of counseling and counseling related skill sets under supervision. Students will engage as interns at an approved site placement and will engage in a broad range of counseling and counseling related activities. Students in this course will build from the knowledge and skills developed in the internship two course.

COUN520 Career Development**3.0 Credits**

This course is focused on developing an understanding of the key theories of career development. Specifically, the course will look at how career, values, and mental health intersect. Practical implications for career counseling across the life span with diverse populations will be included.

EN231 Tutor Development in Writing**1.0 Credit**

Tutor Development in Writing offers a one course credit classroom component to accompany the existing practical experience Writing Tutor Trainees receive during their semester-long observation period in the Writing Center. The course content includes analysis of literature and contemporary theory on best tutoring practices, using a discussion-based model that provides practical application. Student candidates must complete a thorough application process for admission. Prerequisite: Instructor Approval.

GLE130 Introduction to the Social Sciences**3.0 Credits**

This course is to provide a multidisciplinary introduction to the social sciences. It compares contrasting disciplinary theories about the relationships between people and their environments and it also evaluates the scientific methods (qualitative and quantitative) that generate data used to build knowledge and test those theories. This course offers a description of the essential characteristics of the social sciences. As such, the course presents the distinctive perspective, concepts, knowledge base, and terms commonly used by social scientists. Addresses GLE Learning Outcomes Social Sciences and Inquiry & Analysis.

HU101 Introduction to Human Services**3.0 Credits**

This course introduces the human services profession and interweaves contemporary themes of strength, human rights and social issues. It covers the three broad areas of practice in social work and human services (case work, group work and community organization), policy analysis and formulation, management issues, budgeting and grant writing. We also explore the different levels of social work (micro, mezzo and macro). The course content is centered on discussion and exercises based on cases from the different levels and areas of social work and human service advocacy.

HU320 Social Welfare Policy**3.0 Credits**

Examines national policies and programs which directly influence the quality of life for all citizens. Focusing on areas such as health, education, civil rights, welfare, and the justice system, the course looks at the history of American social policy, social theory, policy process, evolving social policy issues, and national efforts at reform. Prerequisites: Any 200 level Sociology course, or permission of instructor.

HU450 Cont Social Problems in Hum Service 3.0 Credits

Upon arrangement, seminars are offered which encourage in-depth exploration beyond the competency of introductory and intermediate levels. Prerequisites: HU101, junior class standing, or permission of the instructor.

ID132 Irish Identity: Art and Music 3.0 Credits

This course introduces students to traditional Irish art and musical forms, including fine arts, music, dance, film, illuminated manuscripts, folkloric and other conceptual representations. Students taking this arts-based interdisciplinary approach will examine how artistic and musical expression manifested at key stages in the evolution of Ireland's history, society, and culture.

MT130 Mathematics for K-8 Educators 3.0 Credits

Intended for students majoring in education and designed to help meet mathematics content standards from the New Hampshire Department of Education and to serve as a refresher in preparation for the Praxis Core Exams. Addresses GLE Learning Outcomes: Mathematics (MT), Problem Solving (PS) and Quantitative Literacy (QL)

PO202 State and Local Government 3.0 Credits

Examines the actors, institutions, policies, and politics of American state and local governments and how they interact with each other and the federal government. Issues such as comparative taxation, political participation, the legal system, and government services such as education, environmental regulations, and health will be investigated. Addresses GLE Learning Outcomes Social Science (SS), Civic Knowledge & Engagement (CE), Inquiry & Analysis (IA), and Information Literacy (IL)

PO332 Disinformation and Propaganda 3.0 Credits

Examines the factors that make people vulnerable to disinformation, propaganda, and conspiracy theories. Issues such as the role of technology, social media, and political polarization, will be evaluated. Both contemporary and historic examples of the use of disinformation, propaganda, and conspiracy theories will be investigated, including the use of these tactics by governments, media, and non-state actors. Prerequisite: any PO class or Second Semester Freshman Status.

PS101 Introduction To Psychology 3.0 Credits

The application of psychological principles of learning, perception, cognition, motivation and social and developmental processes to the understanding of human behavior. Addresses GLE Learning Outcomes Social Sciences (SS), Inquiry & Analysis (IA) and Written Communication (WC).

PS128 Special Topics In Psychology 3.0 Credits

Constructed around a timely issue in psychology, generally in a field of expertise of the faculty member facilitating the course. Prerequisites vary.

PS155 Psychology Of Gender 3.0 Credits

An examination of the similarities and differences between males and females in the areas of brain and fetal development, personality, cognitive functioning and social behaviors. The course will focus on the biological, environmental and cultural influences on gender development and sexual orientation. Gender identity and sexual orientations will also be discussed.

PS214 Creative Arts Therapy 3.0 Credits

An introduction to the basic theoretical concepts of the creative arts therapies and to the therapeutic process. Focus will be on dance/movement, art, music, drama, and story-telling therapy approaches. Prerequisites: Sophomore class status.

PS215 Health Psychology 3.0 Credits

Examines the bio-social and psychological factors which impact behavioral health. Emphasis will be placed on the origin and causes of disease, as well as prevention, management, and treatment of patients with health-related illnesses.

PS220 Group Dynamics 3.0 Credits

The focus of this course is to help students increase their awareness of self and others. Students will gain an understanding of the theory and structure of group process as a vehicle to increase their leadership and group problem-solving ability. Some consideration will be given to group dynamics as a viable therapeutic construct.

PS228 Special Topics In Psychology 3.0 Credits

Constructed around a timely issue in psychology, generally in a field of expertise of the faculty member facilitating the course. Prerequisites vary.

PS230 Child & Adolescent Development 3.0 Credits

Psychological aspects of human growth and development from conception through adolescence, with emphasis on intellectual, emotional, and personality development.

PS231 Adult Development and Aging 3.0 Credits

A continuation of PS230, this course examines developmental change in the adult years, from early adulthood through old age.

PS234 Human Growth And Development 3.0 Credits

This course is designed specifically for students in the Nursing program and is designed to give a general overview of life span development. Various theories of physical, cognitive social, emotional and ethical dimensions of normal development will be studied from infancy through childhood, adolescence and adulthood. What variables affect these domains? What are the nature-nurture situations which make each person unique? The topics of illness, as well as death and dying will be addressed in a manner combining both knowledge and application to patients and their families.

PS235 Forensic Psychology 3.0 Credits

The scientific study of the psychological factors that affect decision-making in various areas of the American legal system. Topics include cognitive processing errors of victims, juries, witnesses and judges, assessment and profiling, family and workplace law, and the effectiveness of punishment and social advocacy.

PS243 Positive Psychology 3.0 Credits

This course focuses on an introduction to the history of positive thinking. Additional emphasis is on the physiological and psychological factors contributing to positive thinking and happiness. Other detractors of positive thinking will be examined including trait and personality characteristics, personal experiences and mental states influencing behavior as well as intervention studies. These include relationships, mindfulness and other variables impacting positive thinking.

PS251 Abnormal Psychology 3.0 Credits

An understanding of abnormal behavior from both a historical and contemporary perspective. Emphasis will be placed on organic, psychosocial, and cultural factors that influence the development of psychopathology. This course will also include an examination of several theories of psychotherapy and their application in treating abnormal behavior.

PS252 Psychology of Motivation & Emotions 3.0 Credits

This course focuses on understanding the psychological and physiological domains of motivation and emotions in human and animal behavior. Particular emphasis will be on the social-cognitive processes triggering emotional and motivational responses that drive behavior.

PS260 Statistics For Behavioral Sciences 4.0 Credits

Quantitative analysis of behavioral measures including descriptive, correlational and inferential methods. Computer use and basic reporting of statistical results in accordance with American Psychological Association standards are included. Addresses GLE Learning Outcomes Mathematics (MT), Problem Solving (PS), and Quantitative Literacy (QL).

PS261 Research Methods-Lab 4.0 Credits

The strategy and techniques of research design, applied statistical techniques, research report writing, and laboratory with field experience. Prerequisite: PS 260 Statistics for Behavioral Sciences. This course is offered every semester.

PS261L Research Methods-Lecture 0.0 Credits

The strategy and techniques of research design, applied statistical techniques, research report writing, and laboratory with field experience.

PS270 Psychology Of Terrorism 3.0 Credits

An investigation into the psychological factors involved in terrorism. Topics include the psychological issues involved in the recruitment process, ideology, personality, motivation, obedience, conformity, influence/persuasion, and interpersonal relationships. Addresses GLE Learning Outcomes Social Sciences (SS), Critical Thinking (CT), Inquiry and Analysis (IA), and Information Literacy (IL). Prerequisite: any social science course, i.e., AN, CJ, ED, ET, PO, PS, or SO.

PS285 Sports Psychology 3.0 Credits
The application of psychology to understanding sports behavior. Motivational development and leadership issues are discussed with particular emphasis on understanding and analyzing constructs such as winning and losing, competition, enhancing performance, and the emotional reaction of both players and participants.

PS298 Research in Psychology 0.0 Credits
Research in Psychology (1-3 credits). The course provides advanced research experience for students interested in pursuing graduate school and/or a career in research by working closely with a faculty member on her research. By working on various projects, students will serve as research assistants and have the opportunity to learn about literature review, the planning and design of research projects, the use of human participants and application for Institutional Review Board approval of research projects, data collection and analyses, and/or the presentation of research findings. This course may be repeated.

PS299 Independent Study In Psychology 3.0 Credits
Offers an opportunity to explore an area of study not included in the Catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the College Coordinator or the Dean of CLASS. The student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the office of the College Coordinator or the Dean of CLASS. Independent Study courses are assigned numbers of 299, 399, or 499, depending on the level of the course.

PS303 Psychology Of Learning-Lab 4.0 Credits
An evaluation of learning processes from an historical perspective through issues of current interest, and a review of the experimental research in the area. Topics include respondent, operant, physiological and information processing theories of learning. The laboratory provides "hands on" experience with the research; the student is responsible for an original research project. Prerequisite: PS261

PS303L Psychology Of Learning-Lecture 0.0 Credits
An evaluation of learning processes from an historical perspective through issues of current interest, and a review of the experimental research in the area. Topics include respondent, operant, physiological and information processing theories of learning. The laboratory provides "hands on" experience with the research; the student is responsible for an original research project. Prerequisite: PS261

PS304 Introduction To Neuroscience-Lab 4.0 Credits
A survey of the biological and chemical explanations of human behavior in learning, memory, sleep, personality, stress, addiction, and sexual functioning. The student is responsible for an original research project. Prerequisite: PS261 or 16 credits of Biology.

PS304L Introduction To Neuroscience-Lect 0.0 Credits
A survey of the biological and chemical explanations of human behavior in learning, memory, sleep, personality, stress, addiction, and sexual functioning. The student is responsible for an original research project. Prerequisite: PS261 or 16 credits of Biology.

PS306 Cognitive Psychology-Lab 4.0 Credits
Designed to familiarize the student with a variety of cognitive processes including attention, memory, language, judgment and decision-making. The student will be introduced to the prominent theories, important individuals, and history of cognitive psychology and will be responsible for an original research project. Prerequisite: PS261

PS306L Cognitive Psychology-Lect 0.0 Credits
Designed to familiarize the student with a variety of cognitive processes including attention, memory, language, judgment and decision-making. The student will be introduced to the prominent theories, important individuals, and history of cognitive psychology and will be responsible for an original research project. Prerequisite: PS261

PS308 Evolutionary Psychology-Lab 4.0 Credits
An investigation of the scientific study of human nature and the psychological adaptations that evolved to sole ancestral survival and reproductive problems. Topics will include Female and Male Mating Strategies (long-term and short-term); Conflict between the Sexes; Aggression and Warfare; Status, Prestige and Social Dominance; Human Survival Problems; Parenting; Kindship; and Cooperative Alliances. Prerequisite: PS261.

PS308L Evolutionary Psychology-Lecture 0.0 Credits

An investigation of the scientific study of human nature and the psychological adaptations that evolved to solve ancestral survival and reproductive problems. Topics will include Female and Male Mating Strategies (long-term and short-term); Conflict between the Sexes; Aggression and Warfare; Status, Prestige and Social Dominance; Human Survival Problems; Parenting; Kindship; and Cooperative Alliances. Prerequisite: PS261.

PS310 Psychological Testing 3.0 Credits

An evaluation of the theoretical and practical issues in the measurement of intelligence, personality and vocation for use in school, clinical and industrial settings. Topics include the construction, analysis, and presentation of standardized tests as well as issues in the interpretation of test scores and behavior. Prerequisite: PS260.

PS318 Psychology of Intelligence Analysis 3.0 Credits

An investigation of the psychology of intelligence analysis. Topics include the psychological issues involved in gathering and analyzing information, sources of intelligence, and the United States Intelligence Community. Prerequisites: Junior status or permission of instructor

PS319 Case Studies In Espionage 3.0 Credits

An investigation of the psychological factors involved in American espionage cases and espionage tradecraft. Topics include the psychological issues involved in the recruitment process, ideology, personality, motivation, obedience, conformity, influence/persuasion, gender, sex, interpersonal relationships, self-management, stress management, and substance abuse. Prerequisite: Junior status or permission of instructor

PS320 Theories Of Personality 3.0 Credits

PS320 Theories of Personality 3 credits A comparative study of classical and current theories of normal personality structure and development with an examination of supporting case study and empirical research. Prerequisite: Sophomore status

PS322 Social Psychology 3.0 Credits

An analysis of individual, group, and collective behavior from a psychological perspective. Topics include theories, methods and empirical data on conformity, compliance, attribution, social justification, mass persuasion, aggression, prejudice, and affiliation. Prerequisites: Sophomore status

PS323 Seminar On Addiction 3.0 Credits

An explanation of the social, psychological and physiological factors associated with drug abuse and dependency. Other topics include the disease implications of drug dependency, models of treatment and recovery and approaches to community intervention. Prerequisites: PS101 and 6 credit hours of psychology.

PS328 Special Topics In Psychology 3.0 Credits

Constructed around a timely issue in psychology, generally in a field of expertise of the faculty member facilitating the course. Prerequisites vary.

PS330 Child Abuse And Neglect 3.0 Credits

Various types of child maltreatment are described and explained. The psychodynamics of both the perpetrator and the victim are explored, with special emphasis on intellectual, social, and emotional outcomes for the child. Case management and strategies for prevention are discussed. Prerequisite: 6 credit hours of Psychology or sociology, anthropology, or criminal justice or permission of instructor.

PS340 Techniques of Counseling I 3.0 Credits

Acquaints students with psychoanalytical, behavioral, cognitive, and humanistic techniques of counseling. Prerequisite: 6 credit hours of psychology.

PS345 Crisis Intervention 3.0 Credits

Examines several theories of crisis intervention and their application. An understanding of the methods and procedures involved in dealing with suicide, substance abuse intervention, as well as other emergency situations will be explored. Prerequisite: 6 credit hours of psychology.

- PS398 Research in Psychology 0.0 Credits**
Research in Psychology (1-3 credits) The course provides advanced research experience for students interested in pursuing graduate school and/or a career in research by working closely with a faculty member on her research. By working on various projects, students will serve as research assistants and have the opportunity to learn about literature review, the planning and design of research projects, the use of human participants and application for Institutional Review Board approval of research projects, data collection and analyses, and/or the presentation of research findings. This course may be repeated.
- PS399 Independent Study In Psychology 3.0 Credits**
Offers an opportunity to explore an area of study not included in the Catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the College Coordinator or the Dean of CLASS. The student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the office of the College Coordinator or the Dean of CLASS. Independent Study courses are assigned numbers of 299, 399, or 499, depending on the level of the course.
- PS405 Family & Intimate Partner Violence 3.0 Credits**
Provides an understanding of domestic violence upon the family and relationships as a system, and explores the psychological dynamics of both victim and perpetrator. The attitudes of the legal and justice systems are studied. Prevention is emphasized. Prerequisite: 9 credit hours of psychology, sociology, anthropology, or criminal justice, or permission of instructor.
- PS428 Special Topics In Psychology 3.0 Credits**
Constructed around a timely issue in psychology, generally in a field of expertise of the faculty member facilitating the course. Prerequisites vary.
- PS430 Introduction to Psychopharmacology 3.0 Credits**
Examines the physical, behavioral, and neurological effects of various psychoactive medications on individuals suffering from anxiety, depression, dementia, and a variety of other medical conditions. Students interested in working in counseling and human services will benefit from understanding the nature and application of these medications as part of the treatment process. Prerequisite: 12 credit hours of psychology or 16 credit hours of biology.
- PS451 Techniques of Counseling II 3.0 Credits**
An application of the basic skills and techniques of counseling covered in PS340. Emphasis placed on developing effective communications and listening skills through case study discussions, role-playing, and video presentations of master therapists in the field. Students also have the opportunity to explore ethical and other practice-related issues. Prerequisites: PS340 (with a minimum of B-).
- PS489 Sr Thesis In Psychology-Lit Review 3.0 Credits**
A review of the literature on a topic selected by the student and a thesis advisor. The thesis is to be written with the continuous guidance of the thesis advisor in American Psychological Association style, and must be defended successfully before a faculty committee. Prerequisites: PS261 and senior standing
- PS490 Sr Thesis In Psychology (Empirical) 3.0 Credits**
Original empirical research on a topic selected by a student and a thesis advisor. During the first semester the student reviews the literature and develops a proposal which is approved by members of a faculty committee. During the second semester the student gathers data, analyzes results, and completes the final draft of the thesis. The thesis is to be written in American Psychological Association style, and must be proposed and defended successfully before a faculty committee. Prerequisites: minimum C+ received in PS261 and at least second semester junior standing.
- PS491 Sr Thesis In Psychology (Empirical) 3.0 Credits**
Original empirical research on a topic selected by a student and a thesis advisor. During the first semester the student reviews the literature and develops a proposal which is approved by members of a faculty committee. During the second semester the student gathers data, analyzes results, and completes the final draft of the thesis. The thesis is to be written in American Psychological Association style, and must be proposed and defended successfully before a faculty committee. Prerequisites: minimum C+ received in PS261 and at least second semester junior standing.

PS494 Senior Seminar In Psychology**3.0 Credits**

A capstone course that assesses the student's progress in achieving the goals of the psychology major, focusing on the ability to understand and communicate important concepts in psychology. Activities include student presentations on thesis and internship experiences, as well as a comprehensive exam in psychology. Prerequisites: PS261, senior standing and a Psychology major. Taken concurrently or subsequent to PS489, PS490, or PS495.

PS495 Senior Internship In Psychology**0.0 Credits**

Senior Internship in Psychology (3-15 credits). Qualified students work under supervision in a hands-on learning environment in the field to further their skills in psychology. Placements are limited, but opportunities are accorded students of exceptional ability. Prerequisites: 18 credit hours in psychology, senior standing, permission of advisor, acceptance by a sponsoring institution, and a 2.50 GPA. The GPA requirement may be waived with permission of the Psychology Department faculty.

PS498 Research in Psychology**0.0 Credits**

Research in Psychology (1-3 credits). The course provides advanced research experience for students interested in pursuing graduate school and/or a career in research by working closely with a faculty member on her research. By working on various projects, students will serve as research assistants and have the opportunity to learn about literature review, the planning and design of research projects, the use of human participants and application for Institutional Review Board approval of research projects, data collection and analyses, and/or the presentation of research findings. This course may be repeated

PS499 Independent Study In Psychology**3.0 Credits**

Offers an opportunity to explore an area of study not included in the Catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the College Coordinator or the Dean of CLASS. The student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the office of the College Coordinator or the Dean of CLASS. Independent Study courses are assigned numbers of 299, 399, or 499, depending on the level of the course.

SO101 Introduction To Sociology**3.0 Credits**

An introduction to the major concepts, theories, methods, and perspectives in sociology as well as a survey of some areas of sociological investigation such as the social nature of personal identity as mediated through the influences of race, class, gender, national culture, and the forces of social change. Addresses GLE Learning Outcomes Social Sciences (SS), Inquiry & Analysis (IA) and Information Literacy (IL).

SO203 Community Organization and Advocacy**3.0 Credits**

An examination of the theory and practice of grassroots community organizing for progressive social change and the development of skills in community-building and social activism. Students will study historical, contemporary, and cross-cultural case studies of community organizing and learn from their own efforts to bring about societal change. Prerequisite: SO101.

SO205 Racial Inequality**3.0 Credits**

An analysis of the problems and possibilities created by racial and ethnic diversity in American society with emphasis given to structural and ideological factors underlying racial and ethnic inequalities. Prerequisite: SO101.

SO220 Families in Society**3.0 Credits**

Examination of the current state of the American family and its symbolic importance in American culture. Investigation of the impact of social diversity on variations in family structure, mate selection and the formation of families, relationships among family members, and the interaction between family and society. Addresses GLE Learning Outcomes Social Sciences (SS), Information Literacy (IL) and Critical Reading (CR).

SO223 Power, Privilege and Justice**3.0 Credits**

An examination of the way groups, or categories of persons, have different access to economic resources, status, and power in society, and the resulting consequences. Prerequisite: SO101

SO225 Social Science Computer Skills**1.0 Credit**

An introduction to computer programs and resources that support research and writing in the social sciences. Students will practice data file management, data graphing and charting, citation and reference management, and techniques of procuring social science research and data.

SO230 Sport in Society

3.0 Credits

There is more to sport than that which occupies our attention viewing or participating in competition, training alone or training and bonding with teammates, pouring over team stats, building fantasy teams or watching SportsCenter. The organization of sport reflects, and contributes to, the organization of society. This course will apply the sociological imagination to the study of sport to enable us to better understand the significance of sport and the nature of contemporary U.S. society. Addresses GLE Learning Outcomes Social Sciences (SS), Critical Thinking (CT), and Ethical Reasoning (ER).

SO240 Religion in Society

3.0 Credits

This course is an introduction to the sociological study of religion. Religion is one of the most powerful, deeply felt, and influential forces in human society. The course examines the meanings that religious practice and values have for individual believers, and studies the dynamic interplay of religion with other aspects of society. Using examples primarily from America, Europe and the Middle East with emphasis on Judaism, Christianity and Islam, the course focuses on the how religion is constituted and politically managed in the context of secular, modern societies and how people are remaking religion in new ways to meet their needs for meaning. Addresses GLE Learning Outcomes Social Sciences (SS), Inquiry and Analysis (IA) and Critical Reading (CR).

SO299 Independent Study In Sociology

3.0 Credits

Offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or their designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar's website. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

SO318 Social Science Research Methods

3.0 Credits

An introduction to the social science research procedures that collect data which are easily subject to statistical handling. It is designed to provide instruction and practice in methodological skills that include research design, techniques of data gathering, procedures for data analysis, and strategies for writing up of research findings. Prerequisite: SO225. Note: Extensive statistical analysis and writing course.

SO335 Introduction To Social Theory

3.0 Credits

An introduction to the major theorists whose writings and conceptual frameworks inform sociological thinking, this course will enable you to appreciate the plurality of perspectives within sociological theory and to apply these ideas to many sociological topics and to think analytically about the many occurrences in daily life beyond the classroom.

SO350 Law in Society

3.0 Credits

Examines social scientific understanding of how law is structured, how law functions as a social institution, and how legal institutions interact with other institutions such as the economy, family, and criminal justice system as well as with issues of race, class, and gender. The course also explores how legal institutions use social scientific knowledge. Additionally, attention is aimed at fostering an appreciation of how legal institutions and their functions vary historically and cross-culturally. Prerequisite: CJ210.

SO400 Readings in Sociology

0.0 Credits

Readings in Sociology (1-5 credits). An opportunity for scholarly and professionally focused independent reading and discussion with a faculty member. Prerequisites: SO101 or permission of instructor.

SO450 Special Topics in Sociology

3.0 Credits

Seminars are offered which encourage in-depth exploration of a limited or specialized area within sociology beyond the competency of an introductory level. Prerequisites: SO101, and one additional 200 level or higher Sociology course.

SPME360 Special Topics in Sports Media

3.0 Credits

This course focuses on in-depth exploration of either a timely or historical topic related to the intersection of sports and media. Students may repeat the course, once, for additional credit if the topic is different. Prerequisite for SPME360: SPME260 and different topic.

BU

AC101 Principles of Accounting I

3.0 Credits

Emphasizes basic principles and concepts and the use of accounting information. This segment of the course concentrates on accounting for a sole proprietorship from inception to the preparation of financial statements. (Required for Business Division majors)

AC102 Principles of Accounting II 3.0 Credits
 Applies the principles and concepts learned in Principles of Accounting I to the partnership and corporation forms of business organization. Special attention to the analysis and interpretation of financial data, and to the measurement and control of costs. Prerequisite: AC101. (Required for Accounting/Finance majors)

AC135 Introduction to QuickBooks 1.0 Credit
 Students will gain a basic understanding of QuickBooks, a popular accounting software for small businesses. This introductory, hands-on course will provide students with the ability to use the software to work through the accounting cycle, from setting up a new company to preparing financial reports. Prerequisites: Accounting I or permission of instructor

AC213 Intermediate Accounting I 3.0 Credits
 An intensive examination of accounting principles related to financial statements. Overall survey of the accounting cycle followed by an in-depth consideration of cash, receivables, inventories, and plant assets. Prerequisite: AC102.

AC214 Intermediate Accounting II 3.0 Credits
 Accounting principles as they pertain to the areas of intangibles, long term investments, current liabilities, stockholders' equity, funds flow, and financial statement analysis. Prerequisite: AC213.

AC299 Independent Study in Accounting 0.0 Credits
 Independent Study in Accounting (2–3 credits). Each offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the College of Business. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

AC312 Forensic Accounting and Fraud 3.0 Credits
 This course will develop the students' understanding of what forensic accounting is and how it pertains to both civil and criminal matters. The participant in this course will gain a basic understanding of the characteristics of forensic accounting, the tools used in this area and the applications in the business world today, including financial statements and tax fraud, bankruptcy, divorce, identity theft, organized crime and litigation services. Prerequisites: AC101, BA213 or BA258.

AC314 Cost Accounting 3.0 Credits
 Addresses the problem of cost control in a manufacturing environment by studying common cost accounting techniques, job order, process, and standard cost accounting methods. Prerequisite: AC102.

AC323 Auditing 3.0 Credits
 Auditing reports and standards of professional ethics and legal responsibility. Methods of internal accounting control. The interpretation and preparation of audit reports. Prerequisite: AC214 or permission of instructor.

AC345 Analysis of Financial Statements 3.0 Credits
 This course will examine financial reporting, the quality of accounting information, US GAAP and IFRS. Students will use ratio analysis to compare Financial Statements to uncover anomalies in financial reporting.

AC354 Individual Income Taxes 3.0 Credits
 Examines the Internal Revenue Code as it applies to individuals and sole proprietorships. The student will apply this knowledge in the preparation of income tax returns and related schedules and forms. There are no prerequisites for this course. Sophomore or junior class standing recommended.

AC355 Taxation Partnerships Corporations 3.0 Credits
 Examines the Code as it applies to business entities. The student will apply this knowledge in the preparation of income tax returns and related schedules and forms for corporations and informational returns prepared for partnerships. Prerequisite: AC354 or permission of instructor.

AC390 Internship in Accounting 0.0 Credits
The opportunity to gain experience in the administration of profit or non-profit organizations. The internship typically is completed during the junior or senior year but can be completed earlier with the approval of the academic advisor. The internship should be arranged with the assistance of the major internship advisor. An agreement is drawn up and approved by the student, the proposed employer, and the major internship advisor. Internships require a minimum of 55 hours of on-the-job work for each hour of credit. Evaluation is made by the major internship advisor and in consultation with the employer. Prerequisites: junior class standing, permission of the academic advisor and the Dean or Dean's designee.

AC391 Internship in Accounting 0.0 Credits
May be taken when an unusual level of job responsibility, such as being in sole control of a business for an extended time, or other unique learning opportunity is encountered which would warrant additional credit above that granted for AC390 or FM390. The granting of more than 3 credits for one internship will be a rare occurrence. In some instances, when deemed appropriate by the academic advisor and the Dean or Dean's designee, a second internship, which is entirely different than that pursued under AC390 or FM390, may be taken. Prerequisite: AC390 or FM390.

AC395 Advanced Internship in Accounting 4.0 Credits
The Advanced Internship follows the same guidelines as the 390 Internship. However, research criteria (applicable to each internship situation) provided by the academic advisor are also included for one additional credit. Students who elect the Advanced Internship must also meet College Honors requirements.

AC399 Independent Study in Accounting 0.0 Credits
Independent Study in Accounting (2-3 credits). Each offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor and must meet with the approval of the academic advisor and the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the office of the College of Business. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

AC474 Advanced Accounting 3.0 Credits
Required for all Accounting majors. Concentrates in areas which are common requirements for both public and non-public careers. Topics to be covered are: consolidated financial statements, foreign operations and transactions, and SEC reporting. Prerequisite: AC214.

AC495 Sr Independent Project Accounting 4.0 Credits
The student will develop a project arranged with the assistance of the major advisor and the approval of the Dean or Dean's designee. Projects include a thesis, business plan, or other significant research project. Prerequisites: senior class standing; declared major in the College of Business or permission of the Dean or Dean's designee.

AC499 Independent Study in Accounting 0.0 Credits
Independent Study in Accounting (2-3 credits). Offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the academic advisor and the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the College of Business. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

AC530 Business Taxation 3.0 Credits
This course will examine all forms of taxable entities; including Individuals, C corporations, Partnerships, and S corporations. Topics will cover the history of taxation, income determination, deductions and credits, acquisitions and dispositions of property and related gains and losses. In addition, distributions and liquidation of business entities, tax planning, and tax research will be studied. Choice of entity will be discussed from the tax, legal, and accounting aspects.

AC560 NonProfit & Governmental Accounting 3.0 Credits
This course will provide an in-depth study of the specialized accounting and financial reporting practices of governmental and not-for-profit organizations, as well as an understanding of how those organizations can better meet the information needs of a diverse set of financial statement users and decision makers.

AC565 Ethics & Accounting Professional**3.0 Credits**

This course will examine legal and ethical issues and the professional conduct expectations of the public accounting practitioner. Using the AICPA Code of Professional Conduct, SEC and AICPA independence rules and regulations related to Sarbanes Oxley, the student will gain the ability to both understand and apply these concepts with the accounting profession.

AC630 Audit – Risk Man & Assurance Serv**3.0 Credits**

This course will cover the relationship between the client's financial statements and the business risks, controls, strategies and performance. The interconnected subjects of accounting, business strategy, and ethics will be explored. Using both problems and case studies, the student will develop the skills necessary to perform a quality financial statement audit. The role of investigatory skills in the case of fraud and forensic accounting, and moral reasoning will also be covered, and how conflicting business and stakeholder considerations may influence decision making.

AC640 Accounting Information Systems**3.0 Credits**

This course will explore the interaction of accounting information systems and an organization's accounting processes. Students will be introduced to researching the systems best suited to an organization along with developing the appropriate accounting structure. Control and efficiency issues necessary to automate functions will be covered.

AC660 Adv Financial Statement Analysis**3.0 Credits**

The objective of this course will be to teach students the skills necessary to analyze and interpret financial statements efficiently and effectively. Topics will include earnings quality, ratio analysis, valuation, off-balance sheet financing, inter-corporate investments and consolidations, equity carve-outs, employee stock options, derivatives, foreign currency translation, leases, pensions, and deferred taxes.

AC670 Cont & Emerging Accounting Issues**3.0 Credits**

The course will examine current and topical issues in accounting today. The course will include study of internal controls and XBRL (eXtensible Business Reporting Language). Current issues will include; study of IFRS (International Financial Reporting Standards), the COSO Framework and Compendium, inversion, and international issues. Other issues to be highlighted include Identity Theft, Crowdfunding issues for the Accountant, and Fraud Control. Sustainability accounting will be studied in relation to economic viability, social responsibility and environmental responsibility.

AD370 Advertising Amer: Cult & Historic**3.0 Credits**

Surveys the development of thought and practice in the field of advertising. It addresses changes in media, creative expression, organization, theory and criticism in American advertising from the Colonial period to the present. Lecture and seminar format.

BA213 Business Law I**3.0 Credits**

Principles of the law of contracts, sales, and agency. An overview of torts and criminal law. Using the problem-solving method, this course is intended to develop an awareness of and a logical approach to the legal factors which affect business decisions.

BA258 Legal & Social Environment Business**3.0 Credits**

A study of the legal, economic, ethical, and political environments which influence the decision-making process of profit and not-for-profit organizations. Topics include the nature of law and the legal system, consumer law, securities and antitrust law, labor law, environmental law and corporate social responsibility.

BA280 Small Bus Advisory Groups**1.0 Credit**

Team projects that assist small businesses in southern New Hampshire in solving real business problems. Working with the Small Business Development Center (SBDC), a team of six students develop business plans, web sites, advertising campaigns, marketing strategies, financial analyses, or any other material that will help small businesses that are just starting up, or with their problems/opportunities. SBDC is a non-profit organization associated with the State of New Hampshire, the Small Business Administration and the University of New Hampshire.

BA380 Small Business Advisory Group**1.0 Credit**

Team projects that assist small businesses in southern New Hampshire in solving real business problems. Working with the Small Business Development Center (SBDC), a team of six students develop business plans, web sites, advertising campaigns, marketing strategies, financial analyses, or any other material that will help small businesses that are just starting up, or with their problems/opportunities. SBDC is a non-profit organization associated with the State of New Hampshire, the Small Business Administration and the University of New Hampshire.

BA471 Business Strategy and Ethics

3.0 Credits

Examination of administrative problems through case studies. Familiarization with current business issues through readings and discussions. Students apply the principles they have learned and develop an appreciation for the enterprise as an integrated system of resources. This course is the capstone requirement for all business majors. Prerequisite: senior standing.

BA480 Small Business Advisory Group

1.0 Credit

Team projects that assist small businesses in southern New Hampshire in solving real business problems. Working with the Small Business Development Center (SBDC), a team of six students develop business plans, web sites, advertising campaigns, marketing strategies, financial analyses, or any other material that will help small businesses that are just starting up, or with their problems/opportunities. SBDC is a non-profit organization associated with the State of New Hampshire, the Small Business Administration and the University of New Hampshire.

CIT274 Computer Forensics and Security

3.0 Credits

This course introduces students to many of the tools and techniques used in both attacking and defending our devices. Beginning with how data is structured and transferred, and what physically makes up our computers students will explore the vulnerabilities of the technology we use and depend on. We will investigate how these vulnerabilities can be exploited, detected and avoided. We will look at tools used for forensic purposes as well as some common tools used by hackers. This course will be offered at least once per academic year starting in the spring term. As the program expands more sections may be needed.

ET101 Principles of Macroeconomics

3.0 Credits

An introduction to macroeconomics, focusing on the measurements of economic well-being, the source of economic growth, and the fiscal and monetary policies of national governments. Topics from international economics, such as exchange rates, will be introduced. Addresses GLE Learning Outcomes Social Sciences (SS), Critical Thinking (CT), Inquiry & Analysis (IA)

ET102 Principles of Microeconomics

3.0 Credits

This introduction to microeconomics begins with an overview of the forces of supply and demand, then moves to a study of market structure and game theory. Applications to business decision-making will be used throughout the course. Addresses GLE Learning Outcomes Social Sciences (SS), Critical Thinking (CT), Inquiry & Analysis (IA) Fall, Spring

ET223 Money and Banking

3.0 Credits

Monetary banking and financial markets and institutions, and the theories of money and credit. The course focuses on policymaking in the United States and on the international level. Prerequisite: ET101. Fall

FM214 Managing Your Money

3.0 Credits

This course focuses on applying the appropriate tools and strategies that help consumers make informed financial decisions in a world with increasing choice and complexity.

FM224 Principles of Financial Management

3.0 Credits

Provides an overview of the three major financial areas: the financial system, investments, and business finance. Students gain an integrated perspective of the interrelationships between financial markets, institutions and management.

FM257 Real Estate Investments

3.0 Credits

Extensive look at broad classes of investments in real estate. Appraisal techniques, investment analysis, financing, and real estate law.

FM299 Ind Study Financial Management

0.0 Credits

Independent Study in Financial Management (2-3 credits). Each offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the College of Business. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

FM311 Managerial Finance

3.0 Credits

Financial policies and problems of modern business enterprise including new business promotion, expansion financing, failure and reorganization, mergers, types of securities, and government regulations. Prerequisites: AC101, ET101.

FM390 Internship in Financial Management 0.0 Credits

The opportunity to gain experience in the administration of profit or non-profit organizations. The internship typically is completed during the junior or senior year but can be completed earlier with the approval of the academic advisor. The internship should be arranged with the assistance of the major internship advisor. An agreement is drawn up and approved by the student, the proposed employer, and the major internship advisor. Internships require a minimum of 55 hours of on-the-job work for each hour of credit. Evaluation is made by the major internship advisor and in consultation with the employer. Prerequisites: junior class standing, permission of the academic advisor and the Dean or Dean's designee.

FM391 Internship in Financial Management 0.0 Credits

May be taken when an unusual level of job responsibility, such as being in sole control of a business for an extended time, or other unique learning opportunity is encountered which would warrant additional credit above that granted for AC390 or FM390. The granting of more than 3 credits for one internship will be a rare occurrence. In some instances, when deemed appropriate by the academic advisor and the Dean or Dean's designee, a second internship, which is entirely different than that pursued under AC390 or FM390, may be taken. Prerequisite: AC390 or FM390.

FM395 Advanced Internship in Finance 4.0 Credits

The Advanced Internship follows the same guidelines as the 390 Internship. However, research criteria (applicable to each internship situation) provided by the internship advisor are also included for one additional credit. Students who elect the Advanced Internship must also meet College Honors requirements.

FM399 Ind Study Financial Management 0.0 Credits

Independent Study in Financial Management (2-3 credits). Each offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the College of Business. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

FM423 Investment Analysis 3.0 Credits

Development of goals and strategies for investing in securities: markets for stocks and bonds, selecting, timing, and performance of measurement techniques. Prerequisite: FM224 or permission of instructor.

FM454 Problems in Finance 3.0 Credits

Uses accounting information in the financial decision-making process. Traditional areas of financial statement analysis, budgeting, the development of criteria for investing, and the rationale of planning and decision-making in the management of a business enterprise. Prerequisite: FM311, FM423, or permission of instructor.

FM495 Sr Independent Project in Finance 4.0 Credits

The student will develop a project arranged with the assistance of the major advisor and the approval of the Dean or Dean's designee. Projects include a thesis, business plan, or other significant research project. Prerequisites: senior class standing; declared major in the College of Business or permission of the Dean or Dean's designee.

FM499 Ind Study Financial Management 0.0 Credits

Independent Study in Financial Management (2-3 credits). Each offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor and must meet with the approval of the academic advisor and the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the College of Business. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

GM534 Cont Bio/Psyc/Social Iss Seniors 3.0 Credits

This course examines biological, psychological, and social perspectives to present a multifaceted picture of aging both in problem identification and opportunity that accompany old age. Issues that will be explored include: the prevalence of HIV/AIDs in later life, current research on mental potential in old age, the creation of age-friendly cities, and new options for end-of-life care. Through case studies, threaded discussions, weekly assignments, and a class project students will analyze the impact of health care payment on employers, providers, consumers and society.

GM544 Quality and Systems in Senior Care 3.0 Credits

This course examines quality and systems in health care and focuses the lens on seniors. Topics in this course include: how health care institutions can use the quality improvement process and the variety of models available to provide better care to seniors and gain control of system frustrations and problems. Through case studies, threaded discussions, weekly assignments, and a class project you will analyze the impact of health care payment on employers, providers, consumers and society.

GM554 Payment Systems for Seniors 3.0 Credits

This course examines payment sources for senior health care services including: an introduction to health care financing, employment-related medical expense coverage and provided a thorough analysis of the alternatives available for senior clients to finance medical and long-term care. Topics include: consumer-directed health insurance plans for older clients, underwriting medical expense insurance and insuring the unhealthy, interim, supplemental, and ancillary medical expense insurance, medicare, medicare supplements, medicaid and veterans' benefits, the need for financing long-term care, caregivers and settings for long-term care, personal resources to meet long-term care needs, development of long-term care insurance, characteristics of individual long-term care insurance and the underwriting of long-term care insurance. Through case studies, threaded discussions, weekly assignments, and a class project students will analyze the impact of health care payment on employers, providers, consumers and society.

HCA201 Introduction to Healthcare Mgmt 3.0 Credits

This course introduces the contemporary and historical nature, organization, functions, policies, processes, structures, tasks, roles, and personnel within the complex inter-related healthcare systems in the United States. Global healthcare systems and perspectives will also be explored. It includes a general overview of fundamental management principles and practices within the healthcare environment, as well as the ever-changing infrastructure of the health-services industry. Current political, economic, ethical, professional, legal, financial, patient, and technological topics will be explored

HCA315 Fundamentals of Epidemiology 3.0 Credits

Epidemiology is one of the pillars of public health. Epidemiologists study the distribution and determinants of disease in human populations; they also develop and test ways to prevent and control disease. The discipline covers the full range of disease occurrence, including genetic and environmental causes for both infectious and noninfectious diseases. Increasingly, epidemiologists view causation in the broadest sense, as extending from molecular factors at the one extreme, to social and cultural determinants at the other.

HCA340 Healthcare Finance 3.0 Credits

This course offers a systemic overview of the financial operations common of healthcare organizations, both in the private and public sector. Upon completion students will have gained an understanding of various day-to-day financial components enabling healthcare service delivery. Student will acquire a foundational understanding of healthcare financial tools and how to apply these tools. Prerequisites: HCA201 Introduction to Healthcare Administration and FM224 Principles of Financial Management.

HCA350 Healthcare Systems & Quality Mgmt 3.0 Credits

This course explores issues related to organized delivery systems and the role of healthcare organizations within them. The course blends practice with theory, introducing issues common to the success or failure of health care systems. Additionally, this course introduces the concept of quality and the process of quality improvement across the health care continuum. This course focuses on the history and evolution of quality; its terms, principles, theories, and practices. The student is introduced to a diverse collection of methods of improving quality; including but not limited to: continuous quality improvement, total quality management, and to the guidelines for implementing these quality improvement processes. Prerequisite- HCA201 Introduction to Healthcare Management

HCA360 Healthcare Ethics, Policy, and Law 3.0 Credits

Engaging students in critical thinking, this class combines an overview of how policymaking interacts with legal and ethical issues in the healthcare environment. This course provides a framework for exploring how the interrelationship of policy making in the United States embedded in our legal system has ethical implications for all stakeholders. Students will develop an understanding of approaches and methods in policy making and how policy affects and is affected by our legal system. There will be an emphasis on analyzing healthcare ethical issues that arise in the enactment of policy and law. Prerequisites: HCA201 or EMSP300.

HCA390 Healthcare Admin Internship 3.0 Credits

This course provides an opportunity to gain exposure to and experience in the administration of healthcare organizations. The internship typically is completed during the junior or senior year but can be completed earlier with the approval of the academic advisor. The internship should be arranged with the assistance of the major internship advisor. An agreement is drawn up and approved by the student, the proposed employer, and the major internship advisor. Internships require a minimum of 55 hours of on-the-job work for each hour of credit. Evaluation is made by the major internship advisor and in consultation with the employer. Prerequisites: junior class standing, permission of the academic advisor and the Dean or Dean's designee.

HCA450 Leadership & Management Healthcare 3.0 Credits

This course provides a micro and macro-overview of management and leadership principles and practices focusing on healthcare organizational systems in the United States. Global perspectives will be introduced as well. Students will develop an appreciation and awareness for the complexities of healthcare institutions and their roles as leaders interacting with a myriad of constituencies embedded within complex systems. Combining theory, an examination of their own behavior, and individual and group experiential exercises, students will learn to apply their knowledge to address organizational, systemic and leadership challenges inherent within the healthcare arena. Prerequisites- HCA201 Introduction to Healthcare Management, MN321 Organizational Behavior and MN201 Principles of Management.

HCA495 Senior Independent Project 4.0 Credits

The student will develop a project arranged with the assistance of the major advisor and the approval of the Dean or Dean's designee. Projects include a thesis, business plan, or other significant research project. Prerequisites: senior class standing; declared major in the College of Business or permission of the Dean or Dean's designee.

IB364 International Business 3.0 Credits

Essential elements of international business will be covered from the manager's viewpoint. Discussion will include the human and cultural environment of the multinational organization, foreign exchange, finance, trade barriers, etc. Prerequisites: ET101, FM224.

IB365 International Marketing 3.0 Credits

The structure of foreign as well as home-based marketing and the financial features of international marketing. Prerequisites: ET101, FM224, IB364. Fall, even years

MK201 Principles of Marketing 3.0 Credits

Integrates the various facets of marketing from research and planning to challenges faced in product development, distribution, pricing, and promotion of goods and services. Through in-class activities, students will view marketing problems and opportunities from different perspectives, and will practice applying marketing principles to an original product. Fall/Spring

MK214 Consumer Behavior 3.0 Credits

Focuses on the study of individuals, groups, organizations, and the processes they use to select, secure, use, and dispose of products. Prerequisite: completion of or simultaneous enrollment in GLE110.

MK299 Independent Study in Marketing 0.0 Credits

Independent Study in Marketing (2-3 credits). Each offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the College of Business. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

MK304 Advertising 3.0 Credits

Study of the discipline's components: creative, media, research and account work. During the course of the semester students develop an advertising campaign. Prerequisite: MK201. Spring

MK317 Logistics Supply Chain Management 3.0 Credits

An introduction to concepts, practices, and current issues associated with distribution and logistics. Distribution channels, supply chain management, transportation systems, technological advances, global trends and opportunities are explored. Prerequisites: MK201, MN201.

MK333 Marketing Research 3.0 Credits

A study of basic marketing and social science research concepts and practices: research design, sampling, survey, observation and experimental research practices, data collection and analysis. Prerequisites: junior class standing. Fall

MK335 Public Relations 3.0 Credits

Public relations are a significant component of a market communication plan, and are often used to introduce new products/services before significant advertising expenditures occur. This course explores options and strategies organizations and celebrities can pursue

MK499 Independent Study in Marketing**0.0 Credits**

Independent Study in Marketing (2-3 credits). Each offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor and must meet with the approval of the academic advisor and the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the College of Business. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

MN201 Principles of Management**3.0 Credits**

The process of coordinating the various resources of an organization toward the realization of its goals.

MN208 Fostering Diversity in Workplace**3.0 Credits**

Catalog Description (including prerequisites, credits, course rotation and other information): Managing workplace diversity is essential in today's workforce. Human potential is unleashed when employees feel they are accepted and belong. This belonging leads to higher motivation, performance, and profits. In this course the student will learn about diversity, discrimination, the laws, and how to proactively manage a diverse workforce. A significant part of the course will focus on unconscious bias and how to effectively manage it. The student will learn about how to foster diversity in the workplace through self-assessments, case studies, and evaluations to measure success.

MN210 Foundations of Project Management**3.0 Credits**

This course introduces the tasks and challenges fundamental to project management, the vital function of managing complex projects across multiple functions. Successful project managers possess the skills necessary to manage their teams, schedules, risks, and resources to produce a desired outcome. Students learn the skills and tools of project management with a practical, hands-on approach. This course guides students through many of the fundamental project management tools and behavioral skills required in profit and nonprofit organizations.

MN275 China's Influence World Economy**3.0 Credits**

Essential elements of International Business will be covered from China's perspective. Discussion will include the human and cultural environment of the multinational organization, foreign exchange finance, trade barriers, etc. In addition, this course entails an extensive preparation for a 2-week trip to China to study global economic ideas, concepts, and theories being applied by different Chinese businesses. This class trip will occur at the end of the spring semester. Admittance to this course will be by approval of the instructor. Prerequisites: IC212 or permission from the instructor.

MN299 Independent Study in Management**0.0 Credits**

Independent Study in Management (2-3 credits). Each offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the College of Business. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

MN307 Human Relations**3.0 Credits**

How administrators may enhance their understanding of and working relationships with their supervisors, employees under their supervision and associate administrators. Prerequisite: MN201

MN314 Human Resource Management**3.0 Credits**

The selection, training and management of personnel in private and public business. The procuring, developing, maintaining, and utilizing of an effective working team. Current practices and major problems of personnel administration. Prerequisite: MN201 (must be passed with a grade of C- or higher).

MN321 Organizational Behavior**3.0 Credits**

In this course students apply behavioral science concepts to understand and analyze their organizational experiences. Individual behavior, interpersonal relations, small groups and relations between groups are examined in the context of a larger organization. The class is treated as an organization. Prerequisite: MN201

MN342 Creativity and Innovation 3.0 Credits

Students will learn how to tap into their creative potential on demand. The class will explore and synthesize various ideas from the field of creativity studies, including systems theory and creative problem solving. Students will analyze the synergies between creativity and innovation. The class will investigate how innovation plays a role in organizations and society. Prerequisite: Junior Standing

MN348 Public Administration 3.0 Credits

Public administration and its pragmatic applications in law, public service, the management of bureaucratic structures, and budget. Prerequisites: ET101, ET102, MN201 (must be passed with a grade of C- or higher).

MN360 Communication Skills for Managers 3.0 Credits

All of the writing elements concerning management activity will be examined including memos, good news/bad news letters, and résumés. Verbal applications will be a major part of the class, as students will make a series of formal speeches.

MN365 Production & Operations Management 3.0 Credits

The production process and the problems encountered in the administration of a manufacturing organization. The quantitative and qualitative techniques used to solve the problems. Production facilities, product development, planning and scheduling, and quality control. Similarity of problems and solutions in service-providing organizations. Prerequisites: MT260, MN201 (must be passed with a grade of C- or higher).

MN366 International Management 3.0 Credits

This course examines cross-cultural and international management issues, and analyzes the problems of managing in an international marketplace. It focuses on cultural and regional diversity and differences, political and economic influences, global market factors, and other contingencies with which managers of multinational enterprises must contend. Prerequisites: MN201.

MN370 Quality Business Management Systems 3.0 Credits

Provides students with the integration of quality or business excellence with business and operational management. Provides students with an understanding of how some of the major elements of a business system work and interrelate. Provides the student with the knowledge of how to integrate a management approach, relevant quality standards, continuous improvement methodologies, and information technology into a management system designed to achieve business excellence. Prerequisites: MT260, MN201 (must be passed with a grade of C- or higher).

MN371 Entrepreneurship 3.0 Credits

Organizational structure, financing, accounting and budgeting, advertising, purchasing, risk management, and personnel administration. Prerequisite: AC101 and MN201

MN390 Internship in Management 0.0 Credits

The opportunity to gain experience in the administration of profit or non-profit organizations. The internship typically is completed during the junior or senior year but can be completed earlier with the approval of the academic advisor. The internship should be arranged with the assistance of the major internship advisor. An agreement is drawn up and approved by the student, the proposed employer, and the major internship advisor. Internships require a minimum of 55 hours of on-the-job work for each hour of credit. Evaluation is made by the major internship advisor and in consultation with the employer. Prerequisites: junior class standing, permission of the academic advisor and the Dean or Dean's designee.

MN391 Internship in Management 0.0 Credits

May be taken when an unusual level of job responsibility, such as being in sole control of a business for an extended time, or other unique learning opportunity is encountered which would warrant additional credit above that granted for MN390. The granting of more than 3 credits for one internship will be a rare occurrence. In some instances, when deemed appropriate by the academic advisor and the Dean or Dean's designee, a second internship, which is entirely different than that pursued under MN390, may be taken. Prerequisite: MN390.

MN395 Advanced Internship in Management 4.0 Credits

The Advanced Internship follows the same guidelines as the MN390 Internship. However, research criteria (applicable to each internship situation) provided by the internship advisor are also included for an additional 1 credit. Students who elect the Advanced Internship must also meet College Honors requirements.

- MN399 Independent Study in Management 3.0 Credits**
Independent Study in Management (2-3 credits). Each offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the College of Business. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the Dean or Dean's designee. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.
- MN415 Labor & Management 3.0 Credits**
Economic and political objectives, policies and tactics of trade unions will be studied. Related employer counter-strategies, American labor legislation, wage and hour laws, collective bargaining and the labor market will be included. Prerequisite: MN201
- MN426 Government and Business 3.0 Credits**
Public policy and legislative developments in regulation, antitrust laws, control over price, and public utility regulations. Roles of government, business and labor in a mixed economy. Prerequisites: ET102 and, MN201
- MN435 Leadership in Teams 3.0 Credits**
Offers students an opportunity to lead teams through all stages of team development, learn and overcome team challenges, and determine the principles of building high-performing teams while nurturing the cohesion and bonding of team members. The team is the unit of an organization where most leaders begin to develop influence skills. Leading teams involves managing different personalities, cultures, and varying skill levels, while simultaneously securing resources and managing expectations of stakeholders. In this course, students also have an opportunity to learn effective techniques for working with virtual teams, managing conflict in teams, and facilitating team problem solving. Prerequisite MN321 Organizational Behavior
- MN495 Sr Independent Study in Management 4.0 Credits**
The student will develop a project arranged with the assistance of the major advisor and the approval of the Dean or Dean's designee. Projects include a thesis, business plan, or other significant research project. Prerequisites: senior class standing; declared major in the College of Business or permission of the Dean or Dean's designee.
- MN499 Independent Study in Management 0.0 Credits**
Independent Study in Management (2-3 credits). Each offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or the Dean or Dean's designee. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.
- SR100 Foundations of Sports & Recreation 3.0 Credits**
This course introduces the formal study of community, commercial, therapeutic, outdoor recreation and sport. Topics include an historical perspective of the importance of sport, recreation, leisure and play, types of agencies and organizations providing sport and recreation services, basic management techniques and problems associated with the field of sport, recreation and leisure; and current trends and future potential in the field. Note: SR100 must be completed with a C- or higher before additional SR courses may be taken. Fall and Spring
- SR115 Fnds of Adventure Sports & Rec 3.0 Credits**
Designed to develop in students the skills and competencies needed for group facilitation within a broad range of adventure sport and recreation settings. Emphasis will be given to risk-management, leadership, and planning strategies. Experiential education methods will be the focus of much of the material. Fall Semester, even years, or as needed
- SR202 Prin of Sport and Recreation Mgmt 3.0 Credits**
The business of sports and recreation is interdisciplinary, and as such, this course will provide instruction and opportunity for hands-on learning of several business principles that are active in, and relevant to, topics pertinent within the sports and recreation industry. Accordingly, the topics to be examined throughout this course include, but are not limited to, sports and recreation leadership, teams, leagues, ownership, revenue sharing, facility operation, media, compensation, franchise valuation, Olympic sports, gender equity, ethical dilemma analysis, amateurism and reform. Prerequisite SR100,

SR210 Role of Leisure 3.0 Credits
Participation in leisure, recreation, and sporting activities is examined in the context of the international community, culture, history, and ethnic origins, major industries, trade policy, social stratification, political life, and economic and commercial activities. In addition, this course includes travel and extensive preparation to study the relationships between leisure, recreation, and sports and economic and cultural development. Spring/Summer odd years

SR238 Training & Treatment Of Athletics 3.0 Credits
Identifies the role of an athletics trainer, including the responsibilities, liabilities and proper sequencing of emergency procedures for the treatment of athletic injuries. Proper techniques for strapping, wrapping and taping various body parts for treatment of injury or for preventative reasons will also be practiced. Prerequisite: SR100 Spring

SR243 Programming Sports/Recreation Mgmt 3.0 Credits
Program design and leadership techniques employed through hands-on activities. The realistic, ethical, and technical skills that a recreation manager should have in order to be successful in programming for various populations and in facilitating a variety of activities. Prerequisite: SR201 or may be taken in conjunction with SR100. Fall

SR295 Sports & Rec Tourism & Hospitality 3.0 Credits
An overview of the tourism and hospitality industry. The Sports and recreation area exemplified by hotels, motels, camps, spas, resorts, clubs, health and fitness centers. Study of economic and marketing trends, planning, procedures, and management issues. Tourism aspects include organization and development sustainable practice, research, and promotions both nationally and globally. Career and professional development opportunities will be explored. Prerequisite: SR243 (May be taken in conjunction with SR243) or permission of instructor. Course offered as needed.

SR299 Independent Study Sports & Rec Mgmt 0.0 Credits
Independent Study in Sports & Recreation Management (2-3 credits). Each offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the College of Business. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

SR310 Sports & Recreation Marketing 3.0 Credits
This course will direct students to a better understanding of the theoretical backbone that makes marketing such a distinctive and vibrant component of the sports and recreation profession. Through the examination of real-world examples and practical application exercises, students will learn how to understand the tools and skills involved in marketing, evaluate marketing efforts, and use the strategies necessary for successful marketing campaigns in sports and recreation. Prerequisites: SR100, or declaration of marketing major or marketing minor Spring, odd years, or as needed.

SR338 Fitness Management 3.0 Credits
A hands-on course studying and experiencing the relationships between chronological functional ages and physiological functioning lifestyle health status. Emphasis is placed on laboratory inventories of the students, establishing baseline health information and writing goals for positive health lifestyle. Topics are often supported by guest lecturers, who are practitioners in specialized fields. Prerequisite: SR100 Spring, even years, or as needed

SR346 Park & Natural Resource Mgmt 3.0 Credits
An overview of the management of natural resources and visitors to those resources. Relates the process and application of management principles in the outdoor recreation setting. Prerequisite: SR243 Fall, even years, or as needed

SR357 Inclusive Sports & Recreation 3.0 Credits
Inclusive Sports and Recreation provides the knowledge and skills that students will need to deliver programs and services to individuals with disabilities in their entry-level careers and also the ability to ensure that people of both sexes and all abilities, ages, cultures, ethnicities, races, and religions will be able to participate in the sports and recreation programs they provide. Prerequisite: SR243. May be taken concurrently. Spring, or as needed

SR368 Sports & Recreation Facilities Mgmt 3.0 Credits

General principles and common problems associated with the management of local park systems, recreation areas, and other recreation-based facilities. Overview of general and low-level technical information which is valuable to recreation professionals. Prerequisite: SR100. Spring, or as needed

SR390 Internship Sports/Recreation Mgmt 0.0 Credits

The opportunity to gain experience in the administration of profit or non-profit organizations. The internship typically is completed during the junior or senior year but can be completed earlier with the approval of the academic advisor. The internship should be arranged with the assistance of the major internship advisor. An agreement is drawn up and approved by the student, the proposed employer, and the major internship advisor. Internships require a minimum of 55 hours of on-the-job work for each hour of credit. Evaluation is made by the major internship advisor and in consultation with the employer. Prerequisites: junior class standing, permission of the academic advisor and the Dean or Dean's designee.

SR391 Internship In Sports & Rec Mgmt 0.0 Credits

May be taken when an unusual level of job responsibility, such as being in sole control of a business for an extended time, or other unique learning opportunity is encountered which would warrant additional credit above that granted for SR390. The granting of more than 3 credits for one internship will be a rare occurrence. In some instances, when deemed appropriate by the academic advisor and the Dean or Dean's designee, a second internship, which is entirely different than that pursued under SR390, may be taken. Prerequisite: SR390.

SR395 Adv Internship Sport & Rec Mgmt 4.0 Credits

The Advanced Internship follows the same guidelines as the 390 Internship. However, research criteria (applicable to each internship situation) provided by the Internship Advisor are also included for one additional credit. Students who elect the Advanced Internship must also meet College Honors requirements.

SR399 Independent Study: Sports & Rec Mgt 0.0 Credits

Independent Study in Sports & Recreation Management (2-3 credits). Each offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the College of Business. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

SR419 Law & Liability In Sports & Rec 3.0 Credits

Informs and educates managers within the recreation industry about legal risks associated with parks, recreation centers, sports and related programs and facilities. Statutory changes and court decisions that affect programs and facilities are studied in depth. Prerequisite: SR100 Spring, or as needed

SR420 Trends & Issues Sports & Rec Mgmt 3.0 Credits

This course is an examination of a broad array of the global trends and the varied impacts that these trends will have on sports, recreation, and leisure services. The processes of change, reinvention, re-conceptualization, and adjustment will also be examined in light of categorical changes in the environment, technology, transportation, values, demography, economy, health, work and free time, and governance. Prerequisites: SR100, SR243, SR368

SR439 Snow Sport Facility Management 3.0 Credits

For this course snow sport is skiing (Nordic and alpine), snowboarding, snowshoeing, and fat biking at commercial facilities. An overview of snow sports facility management will be presented that includes programming, staffing, maintenance, equipment, financial, legal, emergency, and hospitality. On-site observations will be used to highlight management best practices. Prerequisites: SR243, SR368, SR419, or permission of instructor. As needed Winter Term.

SR495 Sr Indep Proj: Sport & Rec Mgmt 4.0 Credits

The student will develop a project arranged with the assistance of the major advisor and the approval of the Dean or Dean's designee. Projects include a thesis, business plan, or other significant research project. Prerequisites: senior class standing; declared major in the College of Business or permission of the Dean or Dean's designee.

SR499 **Independent Study Sports & Rec Mgmt** **0.0 Credits**
Independent Study in Sports & Recreation Management (2-3 credits). Each offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor and must meet with the approval of the academic advisor and the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the College of Business. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

CE

DS101 **Introduction to Documentary Studies** **3.0 Credits**
This course is open to all students interested in learning to make documentary videos and/or pursuing the Certificate in Documentary Studies. The course covers the history of the documentary tradition, looks at selections from past classics as well as contemporary works and new trends in the field to learn the craft by example, and introduces students to various documentary approaches, the research methods, storytelling techniques and ethical and legal issues relevant to the creation of video and audio documentaries and provides students with hands-on opportunity to make their own short documentary. Addresses GLE Learning Outcomes Arts and Design (AD), Creative Thinking (CV), and Applied Learning (AL).

DS491 **Documentary Studies Proj Seminar 1** **3.0 Credits**
This is the first course of a two-semester capstone experience for all students in the Documentary Studies Certificate program. This course and DS492 are designed to review and reinforce all aspects of making a documentary and to provide a learning context for creating a documentary on a subject of one's own choosing. This course will take students through the pre-production and production stages of their own documentary project, and will include topic selection and proposal writing in collaboration with a regional partner/ subject(s), pre-production planning, archival research and recording, and video and audio field recording and interviewing. Prerequisites: declared candidacy for the Documentary Studies Certificate program; completion of DS 101, SO 219 or HP 310, MU 120 and MU 220 OR MC 230 and MC 331.

DS492 **Documentary Studies Pro Seminar II** **3.0 Credits**
This is the second course of a two-semester capstone experience for all students in the Documentary Studies Certificate program coordinated. This course follows DS 491 and is designed to review and reinforce all aspects of making a documentary and to provide a learning context for creating documentary on a subject of one's own choosing. This course will take students through the post-production stage of their own documentary project, and will focus on the editing process where one finds and formulates a meaningful story that can be shared with others. Students are expected to screen and present a completed project to their documentary subjects/community client and the campus community at the end of the semester. Prerequisites: DS 491.

ES202 **Sustainability Seminar** **1.0 Credit**
Students will be introduced to the three parts of Sustainability – Environmental, Economic and Social Justice, and will learn, through hands-on activities, about concepts and actions related to ecological sustainability. Each student will identify an individual sustainability project to work on at FP or in local communities.

ES302 **Sustainability Project** **3.0 Credits**
This project course will connect the students with the individuals and resources needed to complete their Sustainability project successfully. The Coordinator will also make sure that the student demonstrates how he or she is applying the knowledge and skills from the Green Earth courses to the project. Prerequisite ES202

GCC490 **Global Citizenship Seminar** **1.0 Credit**
Provides a forum for students who are currently enrolled in the Global Citizenship Certificate Program or who have an interest in more deeply exploring the meaning, roles, and responsibilities of citizenship. During the semester students will complete readings and convene dialogue on citizenship and leadership, and on global issues with national implications and national issues with global implications. Student experience will culminate in presentations about their class or practicum experiences, and reflect on ways that leadership and global or globally minded experiences add value to life at and beyond Franklin Pierce University. Prerequisites: Senior status or declaration of Certificate in Global Citizenship

GCC491 **Global Citizenship Field Experience** **0.0 Credits**
Global Citizenship Field Experience (1-3 credits). Offers the opportunity to gain global or globally minded experience and grow leadership skills for a global context while engaged in direct community service, global-oriented project, professional activity, or other

germane experience. A high degree of responsibility is placed on the student for selecting the field experience, developing learning objectives, and securing the approval of the certificate coordinator for academic credit. Field experience of no fewer than 20 hours is taken after most of the certificate requirements have been met. It is recommended that the field experience be completed concurrently with GCC490 Global Citizenship Seminar.

PL101 Introduction To Paralegal Studies 3.0 Credits

This course provides an overview of the legal system and the government, as well as an historical perspective that enables the student to understand the rationale for the system's existence and effectiveness. Ethics for paralegals and employment strategies are also explored.

PL102 Legal Research & Writing 3.0 Credits

This course provides students with a working knowledge of the methods of legal research, analysis and writing. Computer research and practical writing skills are taught.

PL103 Tort Law 3.0 Credits

This course deals with the specialized area of personal injury law including an overview of the tort system. Theoretical concepts include elements of a tort, liability, collectability, foreseeability, remedies and damages.

PL104 Probate Law 3.0 Credits

This course covers probate law and familiarizes the student with the documents and filings necessary to initiate and conduct litigation in the Probate Courts. Subjects covered include wills and estates, adoptions, terminations and commitments.

PL105 Litigation 3.0 Credits

This course covers court jurisdiction and familiarizes the student with the documents and filings necessary to initiate and conduct litigation in the court system.

PL106 Real Estate Law 3.0 Credits

This course covers comprehensive real estate vocabulary and related concepts. Types of ownership, various ways to acquire property, elements in real estate contracts and property zoning and requirements are covered.

PL107 Business & Corporate Law 3.0 Credits

This course covers the theory and applications of contracts, property, agency, employment, administrative and tax law as they apply to business organizations and corporate and partnership law.

PL108 Family Law 3.0 Credits

This course covers the complexities of issues that surround the family. The course begins with jurisdiction, and the role of the paralegal in the practice of family law. Issues integral to marriage, divorce, unwed families, domestic violence, child abuse and neglect and juvenile law are scrutinized.

PL109 Criminal Law 3.0 Credits

This course covers the processes and theories of criminal prosecution and defense from arrest through trial. Verdict and post-trial procedures are scrutinized.

WL115 Intro Women, Gender, Leadership 3.0 Credits

Focuses on the interdisciplinary analysis of women, culture, and society. Topics include: cultural images, socialization, media, sexuality, sexual orientation, work, family, politics, violence, inequality, and racial diversity. The course also examines feminist viewpoints, interdisciplinary studies, and the relationship of feminist concepts, methods, and modes of analysis to traditional academic disciplines.

WL490 Women, Gender, Leadership Seminar 1.0 Credit

Provides a forum for students who have recently engaged in, or are currently enrolled in, a Women, Gender, and Leadership internship. During the seminar they will complete readings on various kinds of leadership, give presentations about their leadership experiences, and write about ways in which their leadership experiences will enrich their futures. Taught on a rotational basis by various program faculty, the focus is on students having the opportunity to synthesize their academic and hands-on leadership experience. Prerequisites: declared candidacy for the Women, Gender, and Leadership Certificate, plus either completion or current enrollment in a leadership internship approved by the Women, Gender, and Leadership Certificate Steering Committee.

WL491 Internship Women, Gender, Leader 3.0 Credits
Internship designed to facilitate leadership opportunities for students in the Women, Gender, and Leadership program. WL491 is arranged in consultation with an evaluating WL faculty member and/or the supervising Dean or their designee and a selected agency supervisor within the student's targeted work-area. Goals and objectives are contracted prior to registration and designed to complement or directly relate to a student's major area of study. Internships require a minimum of 40 hours (per credit), which includes on-the-job work and documentation procedures.

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ED105 Educational Psychology 3.0 Credits
This course is designed to provide the student with an in-depth background in the patterns of normal human growth and development among children and adolescents and its implications for learning and education. A general understanding of exceptionalities among children and youth to age 21 will be explored. Topics include human development, learning, cognition, motivation, individual differences, and group processes. Addresses GLE Learning Outcomes Social Sciences (SS) and Critical Thinking (CT). This course is often taught simultaneously with ED506. Requirements for completion of this course for graduate credit are more rigorous. Relevant course requirements for your academic level can be found in the course syllabus.

ED112 Teach/Learn in a Democratic Society 3.0 Credits
This course examines conceptions of 'democratic ways of life' and how communities and schools work to sustain democracy in a diverse society. Current issues in education are investigated from social, historical and philosophical points of view in local and global contexts. Topics include Equal Educational Opportunity and the federal Every Student Succeeds Act (ESSA) ; implementation of the Common Core State Standards; 21st Century skills with a focus on technology. Qualities and skills of teachers as leaders for equity and excellence in education are explored. Addresses GLE Learning Outcomes Critical Reading (CR), Critical Thinking (CT), and Social Sciences (SS).

ED195 The World of the Public School 1.0 Credit
An opportunity for Sophomores and Juniors to experience a school environment as a supervised participant/observer in a public or private school. Pass/Fail. Elective. Prerequisite: must be Education major. May be repeated for credit for a maximum of three times.

ED224 Design Mgmt Teach Learn Environment 3.0 Credits
Focuses on teaching methods and theories, school classroom organizational structures, and management techniques. Students will design assessable objectives and a variety of types of lesson plans. Reflective journaling will be introduced and practiced. Course includes supervised experiences in teaching students in school settings; observation and implementation of curricula; and scheduled seminars for discussing and critiquing practicum experiences. Professional attire and travel to local schools are required for this course. Students are required to pass the Praxis Core examination as a requirement of this course. Prerequisite: ED105 or ED112. 15 hours of field experience is required.

ED231 Primary Literacy 3.0 Credits
This course focuses on the developmental characteristics of children as they learn language and literacy. Students learn to plan theory-informed instruction in the Language Arts for grades K-3 aligned with the Common Core State Standards. Topics include reading foundations (print concepts, phonological awareness, phonics and word recognition, and fluency); balanced instruction in reading literature and informational text, writing for different purposes, and assessment. The importance of school/family partnerships is explored. Prerequisite: ED224. 15 hours of field experience is required.

ED260 Child and Adolescent Literature 3.0 Credits
Includes the language and focus of literary criticism as it applies to child and adolescent literature. Students will be exposed to the works of many authors and illustrators, as well as relevant literary awards. They will become familiar with books that were popular with those growing up in America during different periods of history. Explorations will include a look at literature-based instruction, experience recognizing prevailing cultural perspectives through books, and development of annotated bibliographies for use with modified bibliotherapy. Fall/Spring

ED263 Methods in Teaching Math 3.0 Credits
This course covers detailed content on mathematical concepts, as well as pedagogical implications for math instruction in K-8 educational settings. Participants will evaluate, plan, and assess mathematics lessons, paying particular attention to problem solving, differentiation, and developmental theory. Prerequisite: ED224. 15 hours of field experience is required.

ED275 Community Education 3.0 Credits

This course explores the development of community based educational programs including after school programs, adult and cooperative learning programs, non-profit organizations and work place educational settings. The course provides an introduction to adult learning theory and principles of community education. Prerequisite: ED105 or ED112.

ED308 Introduction to Assessment 3.0 Credits

Students will be introduced to forms of assessment used in classroom teaching, as well as how to make evidence-based decisions as part of a collaborative team of educators. Students evaluate the effectiveness different kinds of assessments and examine the benefits and challenges of assessments in a variety of contexts. Students will understand the process of assessment from asking good questions through "closing the loop" and will discuss test creation, reliability and validity as it relates to assessment work. Prerequisite: ED224

ED310 Current Topics American Education 3.0 Credits

The focus of this class will vary, depending on the expertise of the faculty member teaching and new initiatives at the state or national level. Topics may include violence and safety in public schools, funding challenges, gender differences and women in education, and alternative education programs. Students registering for this course to fill an elective course in their major should seek specific topic approval from their major advisor. This course may be repeated. Fall/Spring

ED312 Understand/Tch Except Learners 3.0 Credits

This course focuses on characteristics of disabilities, human development and variations. The impact on students' learning, social, and familial environment is explored. The course is designed to assist teacher candidates in facilitating learning, utilizing accommodations, writing lesson plans that include all learners with techniques from Universal Design for Learning, Differentiated Instruction and Educational & Assistive Technology. Prerequisite: ED105, ED224, and sophomore standing. 15 hours of field experience is required.

ED314 Scientific Inq & Teaching Methods 3.0 Credits

Students will become familiar with topics explored through mathematics and science in grades 4-8. Lesson plan assignments will include both inductive and direct teaching, while incorporating appropriate equipment and technology. Experiential educational opportunities will be explored. Prerequisite: ED224 or permission of instructor.

ED316 Methods Teach Social Studies 3.0 Credits

Students will explore curriculum models and topics for social studies in grades K-8. They will review periods of history and diverse geographic areas through children's literature. Concepts of culture will be explored through art and music. Unit plans will incorporate a variety of qualitative assessment devices. Emphasis will be placed on strategies that encourage critical thinking, creative thinking, and media literacy. Prerequisite: ED224 or instructor permission. 15 hours of field experience is required.

ED328 Special Education Law 3.0 Credits

This course emphasizes laws pertaining to students with disabilities. It is mandatory for education majors. Laws covered are IDEA 2004, N.H. Rules for the Education of Children with Disabilities, Assistive Technology Act, ADA, Section 504, and NCLB. Students work in teams for selected assignments. Course is appropriate for regular and special educators. Prerequisite: ED312 or instructor permission.

ED340 Assess/Identify Exceptional Learner 3.0 Credits

This course in assessment and the identification of educational disabilities will provide students with an understanding of the importance of formal and informal assessment in the identification of educational disabilities. Students will learn how to administer assessments, interpret results, and write evaluations complete with recommendations for learners. Prerequisites: ED308 and ED312, or instructor permission. 15 hours of field experience is required.

ED341 IEP and Instructional Consideration 3.0 Credits

This course focuses on providing the teacher candidate with the knowledge and skills to develop Individual Education Programs with appropriate instructional accommodations. Teacher candidates will learn evidence-based strategies to assist the K-12 student access the general education curriculum. The impact of disabilities & cultural and linguistic diversity on college and career readiness is explored. Prerequisites: ED308, ED312, and ED340. 15 hours of field experience is required.

ED345 Effective Comm & Collaboration 3.0 Credits

Teacher candidates in this course will learn the concepts and practices of collaboration, consultation, interpersonal communication skills, teamwork, and problem solving. Teacher candidates will discover how students with disabilities are impacted by interpersonal and communications gaps and issues between and among team members. Lastly, teacher candidates will create a resource that includes methods to facilitate effective collaboration and consultation skills. Prerequisite: ED224, ED312, or instructor permission.

ED350 Teaching Literacy Across Curriculum 3.0 Credits

Focus is on strategies for developing literacy in the Language Arts classroom and across the curriculum for grades 4-8. Students design an interdisciplinary thematic unit, using: narrative and expository literature, content frameworks, Common Core Curriculum State Standards, and best research-based practices. Study of quantitative assessment includes discussion of state and national accountability initiatives, as well as the use of assessment results to improve instruction. Undergraduate Prerequisite: ED224 or Instructor Permission. If this class is taken at the 500 level, it is a graduate course and expectations for student performance are at an advanced level. Course requirements and/or evaluation of requirements are more rigorous than at the lower division section of this course. 15 hours of field experience is required.

ED360 Best Practices in Secondary Context 3.0 Credits

This course for all prospective middle/secondary education teachers and must be taken prior to student teaching. Candidates will focus on high school best practices in their area of certification/concentration. Topics will be differentiated by certification to include: literacy, media, classroom management, safety, assessment. 30 hours of field experience is required. Prerequisites: Senior status OR Junior status with approval of Education advisor and Director of Education.

ED372 Learning Theories Prof Ed Settings 3.0 Credits

This course examines the unique nature of the learner in educational settings beyond the traditional classroom. Emphasis will be placed on theories and practices affiliated with experiential learning theory and adult learning theory. Students will engage in an analysis of concepts and theories including motivation, learning styles which work best in professional learning settings. Students must successfully complete 20 hours of field placement in a professional practice setting. Prerequisite: ED225, PS 230 or PS 231.

ED373 Legal Issues Prof Education Setting 3.0 Credits

Every professional education setting intersects in meaningful ways with the legal system. This course provides students with a basic understanding of legal concepts that directly apply to their work. Students will examine and practice the knowledge, skills, and attitudes relating to contemporary legal issues and risk management practices.

ED462 General Spcl Ed Student Teach- dual 8.0 Credits

This is a 10-week culminating, capstone experience. It involves a sequentially developed program of observation, participation, and full immersion teaching in an approved public or private school setting. Students who have already successfully completed 16 weeks of elementary student teaching, with a customized plan for the second ten weeks, will have worked closely with the Field Placement Coordinator to ensure a concentration of field hours in at least two of the three required levels (K-3, 4-8, 9-12) for this K-12 certification. The Capstone Coordinator will secure this last placement for a concentrated experience in general special education. Insights into case management, push-in/pull-out support, IEP meetings, teaching materials and their use, lesson plans, units, and curriculum delivery are developed during this experience. Classroom management and discipline skills are strengthened. Daily travel is required. Students are responsible for their own transportation. Student teachers follow the public school calendar, not the Franklin Pierce calendar. Prerequisites: "Good Standing" in the program, permission of the Field Placement Coordinator and the Program Director; satisfactory completion of all required Education courses, cumulative GPA of at least 2.50, and a passing score on all sections of the Praxis Core exams.

ED463 Gen Special Ed Student Teaching Sem 1.0 Credit

To be taken concurrently with ED462 General Special Education Student Teaching. It is comprised of weekly, in-person or through technology, student teaching debriefing sessions focusing on ongoing issues during the 8-week student teaching experience. Students complete the N.H. TCAP focused on Teacher Education Standards (N.H. Chapter Ed 600, Part Ed 610 found at http://www.gencourt.state.nh.us/rules/state_agencies/ed600.html). Job search strategies and interview skills will be developed.

ED464 General Special Ed Student Teaching 14.0 Credits

This is a 16-week culminating, capstone experience. It involves a sequentially developed program of observation, participation, and full immersion teaching in an approved public or private school setting. Students who have already successfully completed 16 weeks of elementary student teaching, with a customized plan for the second ten weeks, will have worked closely with the Field Placement Coordinator to ensure a concentration of field hours in at least two of the three required levels (K-3, 4-8, 9-12) for this K-12 certification. The Capstone Coordinator will secure this last placement for a concentrated experience in general special education. Insights into case management, push-in/pull-out support, IEP meetings, teaching materials and their use, lesson plans, units, and curriculum delivery are developed during this experience. Classroom management and discipline skills are strengthened. Daily travel is required. Students are responsible for their own transportation. Student teachers follow the public school calendar, not the Franklin Pierce calendar. Prerequisites: "Good Standing" in the program, permission of the Field Placement Coordinator and the Program Director; satisfactory completion of all required Education courses, cumulative GPA of at least 2.50, and a passing score on all sections of the Praxis Core exams.

ED471 Internship in Education Studies 0.0 Credits

Internship in Education Studies (1-9 credits). Education Students majors are encouraged to participate in field work in a professional education setting to further their skills. Students will work with the School of Education Field Placement Coordinator to establish placement opportunities. Prerequisites: Permission of the Director of Education.

ED472 Senior Thesis in Education Studies 3.0 Credits

This course is designed to provide the student with an in-depth exploration of the wider landscape of education beyond public school teaching. Through research, in-person site visits, and interviews, students will investigate topics such as museum studies, alternative schools, education nonprofits, and education policy. Additionally, students will create a professional portfolio that prepares them for the transition to a career in education. Prerequisite: senior standing

ED473 Education Studies Senior Seminar 1.0 Credit

A capstone course that assesses the student's progress in achieving the goals of the Education Studies major, focusing on the ability to understand and communicate important concepts of education studies in the chosen professional practice area. Activities include student presentations on thesis and internship experiences, and preparation for post-secondary plans. Prerequisites: Educational Studies major with senior status. Taken concurrently with ED471 or ED472.

ED483 Student Teaching Seminar:Elem 1.0 Credit

To be taken concurrently with ED490 Elementary Student Teaching. It is comprised of weekly student teaching debriefing sessions focusing on ongoing issues during the 16-week student teaching experience. Students complete the N.H. TCAP focused on Teacher Education Standards (N.H. Chapter Ed 600, Part Ed 610 found at http://www.gencourt.state.nh.us/rules/state_agencies/ed600.html). Job search strategies and interview skills will be developed. Students are recommended to take Content area testing (i.e., Praxis II test) and the Foundations of Reading Test prior to the start of student teaching.

ED487 Student Teaching Seminar:Sec 1.0 Credit

To be taken concurrently with ED492 Secondary Student Teaching. It is comprised of weekly student teaching debriefing sessions focusing on ongoing issues during the 16-week student teaching experience. Students complete the Education Portfolio focused on Teacher Education Standards (ED610s). Job search strategies and interview skills will be developed, including writing a cover letter and resume. Students are expected to take Praxis II exams (fee required) Fall/Spring

ED490 Student Teaching Elementary 14.0 Credits

A 16-week sequentially developed program of observation, participation, and classroom teaching in an approved public or private school for elementary certification. Students seeking elementary certification will spend sixteen weeks in a primary classroom. Insights into teaching materials and their use, lesson plans, units, and curriculum development are developed during this experience. Classroom management and discipline skills are strengthened. Daily travel is required. Students are responsible for their own transportation. Prerequisites: "Good Standing" in the program, permission of the Director of Education, completion of all required Education courses, cumulative GPA of at least 2.50, and a passing score on all three sections of the Praxis I exams. Fall/Spring

ED492 Student Teaching Secondary 14.0 Credits

Students experience sixteen weeks in a secondary classroom. These placements encompass observation, participation, and classroom teaching in an approved public or private school. Insights into teaching materials and their use, lesson plans, units, and curriculum development are developed during this experience. Classroom management and discipline skills are strengthened. Daily travel is required. Students are responsible for their own transportation. Prerequisites: "Good Standing" in the program, permission of the Director of Education; completion of all required Education courses, cumulative GPA of at least 2.50, and a passing score on all three sections of the Praxis I exams. Fall/Spring

ED501 Grad Teacher Ed Prog Orientation 2.0 Credits

This mandatory introductory course provides training in 100% online Canvas platform in order to develop a Certification or Concentration Portfolio based upon NH Department of Education standards. Grade Level Expectations (GLE's), Grade Span Expectations (GSE's), lesson planning and reflective practice will be introduced. Training in Canvas for 100% online and hybrid delivery will also be included. Prerequisites: Program acceptance and must have minimum of a Bachelor's Degree.

ED505 Teach/Learn in a Democratic Society 3.0 Credits

This course examines conceptions of 'democratic ways of life' and how communities and schools work to sustain democracy in a diverse society. Current issues in education are investigated from social, historical and philosophical points of view in local and global contexts. Topics include Equal Educational Opportunity and the federal Every Student Succeeds Act (ESSA); implementation of the Common

Core State Standards; 21st Century skills with a focus on technology. Qualities and skills of teachers as leaders for equity and excellence in education are explored. Prerequisite: Concurrent with ED501 or Director of Education approval.

ED506 **Educational Psychology** **3.0 Credits**
This course is designed to provide the student with an in-depth background in the patterns of normal human growth and development among children and adolescents and its implications for learning and education. A general understanding of exceptionalities among children and youth to age 21 will be explored. Topics include human development, learning, cognition, motivation, individual differences, and group processes.

ED508 **Introduction to Assessment** **3.0 Credits**
This course focuses on all types of assessment, including standardized assessment, reliability and validity, NECAP and NAEP, and formal and informal types of effective assessment. Alternative/authentic types of assessment will be explored, such as Portfolio and Reflective Practice. Focus will be on maintaining a continuous loop of pre-post assessment techniques to guide instruction and lesson planning.

ED509 **Understand, Teach Exp Learners** **3.0 Credits**
This course is designed to introduce students to federal and state laws and local policies that pertain to individuals with disabilities and their implications on American schools in helping to “leave no child behind.” The course will focus on how variations in development impact learning and how best practices research and effective instruction can be used to meet the needs of diverse and exceptional learners. 15 hours of Field Experience is required.

ED510 **Design Mgmt Teach Learn Envir** **3.0 Credits**
This 3-credit course focuses on the overall management of K-12 classroom settings which foster an inclusionary model to address all learners’ needs. In addition, the design and management of other models will be explored. Teacher intervention techniques to minimize disruptive behavior and affective education will be reinforced. Other topics will focus on effective use of space, time, resources organizational structures and pre-post assessment management systems. 30 hours of Field Experience is required.

ED511 **Intro to Autism Spectrum Disorders** **3.0 Credits**
Autism Spectrum Disorder (ASD) is a neurodevelopmental disorder that affects 1 in 68 children. Although we do not yet understand the etiology, the neural and genetic bases, or even the underlying psychological nature of ASD, we are gradually making progress in describing fundamental behavioral phenomena associated and in drawing implications for effective intervention. Our course will be devoted to a discussion of ASD and what the teacher, parent, or community member needs to know. Topics to be covered include the early history of ASD, characteristics, treatments, interventions, family, education, community, workplace needs, and transitions and transition planning for those with ASD.

ED512 **Special Education Law** **3.0 Credits**
This course is required for all M.Ed. programs emphasizing special education law and its processes. Laws covered are NCLB, IDEA2004, FAPE, ADA, NH Rules for the Education of Children with Disabilities, Assistive Technology Act, and Section 504. Case law and case studies compliment this course with attention to referral, evaluation, identification, IEPs, and progress monitoring

ED515 **Primary Literacy** **3.0 Credits**
This course focuses on the developmental characteristics of children as they learn language and literacy. Students learn to plan theory-informed instruction in the Language Arts for grades K-3 aligned with the Common Core State Standards. Topics include reading foundations (print concepts, phonological awareness, phonics and word recognition, and fluency); balanced instruction in reading literature and informational text, writing for different purposes, and assessment. The importance of school/family partnerships is explored. 15 hours of Field Experience is required. Prerequisite: ED 510 (may be taking concurrently with Advisor approval)

ED516 **Teaching Literacy Across Curriculum** **3.0 Credits**
Focus is on strategies for developing literacy in the Language Arts classroom and across the curriculum for grades 4-8. Students design an interdisciplinary thematic unit, using: narrative and expository literature, content frameworks, Common Core Curriculum State Standards, and best research-based practices. Study of quantitative assessment includes discussion of state and national accountability initiatives, as well as the use of assessment results to improve instruction. Undergraduate Prerequisite: ED224 or Instructor Permission. If this class is taken at the 500 level, it is a graduate course and expectations for student performance are at an advanced level. Course requirements and/or evaluation of requirements are more rigorous than at the lower division section of this course. 15 hours of field experience is required.

ED517 **Methods in Teaching Social Studies** **3.0 Credits**
Students will explore curriculum models and topics for social studies in grades K-8. They will review periods of history and diverse geographic areas through children's literature. Concepts of culture will be explored through art and music. Unit plans will incorporate a variety of qualitative assessment devices. Emphasis will be placed on strategies that encourage critical thinking, creative thinking, and media literacy. 15 hours Field Experience is required. Prerequisite: ED510

ED518 **Methods in Teaching Math** **3.0 Credits**
This course covers detailed content on mathematical concepts, as well as pedagogical implications for math instruction in K-8 educational settings. Participants will evaluate, plan, and assess mathematics lessons, paying particular attention to problem solving, differentiation, and developmental theory. 15 hours of Field Experience is required.

ED519 **Scientific Inquiry Teaching Methods** **3.0 Credits**
Student will utilize an inquiry-based approach to teaching science topics explored in grades K-8. Lesson plan assignments will execute inquiry-based lessons aligned to Next Generation State Standards (NGSS) that incorporate math and literacy skills as described in the Common Core State Standards (CCSS) both in class and in the field. .

ED526 **Best Practices in Secondary Context** **3.0 Credits**
This course is designed as the capstone methods course for all prospective middle/secondary education teachers and must be taken prior to student teaching. Candidates will focus on high school best practices in their area of certification/concentration. Topics will be differentiated by certification to include: literacy, media, classroom management, safety, assessment. Prerequisites: This is a capstone methods course; all other course work must be successfully passed before enrolling in this course; students wishing to take it out of sequence must have written permission from the Director of Education. 30 hours Field Experience is required for secondary certification candidates

ED528 **Special Topics** **1.0 Credit**
Special Topics in Education

ED531 **Student Teaching Elementary Cert** **0.0 Credits**
This culminating experience for Elementary Education candidates involves 8 weeks in an approved lower elementary setting (K-3), preferably Grade 1, and 8 weeks in an approved self-contained 4-8 setting. Includes Seminar. (See description and pre-requisites above).

ED531A **Student Teaching Elementary Cert** **3.0 Credits**
This culminating experience involves two consecutive sessions (ED531a and ED531b) for a total of 6 credits and 16 weeks. It is comprised of weekly student teaching debriefing sessions focusing on ongoing issues during the 16-week student teaching experience. Students complete the N.H. TCAP focused on Teacher Education Standards (N.H. Chapter Ed 600, Part Ed 610 found at http://www.gencourt.state.nh.us/rules/state_agencies/ed600.html). Job search strategies and interview skills will be developed. Students are recommended to take Content area testing (i.e., Praxis II test) and the Foundations of Reading Test prior to the start of student teaching. Prerequisites: Completion of the Student Teaching application process.

ED531B **Student Teaching Elementary Cert** **3.0 Credits**
This culminating experience involves two consecutive sessions (ED531a and ED531b) for a total of 6 credits and 16 weeks. It is comprised of weekly student teaching debriefing sessions focusing on ongoing issues during the 16-week student teaching experience. Students complete the N.H. TCAP focused on Teacher Education Standards (N.H. Chapter Ed 600, Part Ed 610 found at http://www.gencourt.state.nh.us/rules/state_agencies/ed600.html). Job search strategies and interview skills will be developed. Students are recommended to take Content area testing (i.e., Praxis II test) and the Foundations of Reading Test prior to the start of student teaching. Prerequisites: Completion of the Student Teaching application process

ED532 **Student Teach Middle/Secondary Cert** **0.0 Credits**
This culminating experience for Middle/Secondary Education candidates involves 8 weeks in an approved middle school 5-8 setting and 8 weeks in an approved high school 9-12 setting (except Biology which can be in one 16-week 9-12 setting. Includes Seminar. (See description and pre-requisites above).

ED532A **Student Teaching Secondary Cert** **3.0 Credits**
This culminating experience involves two consecutive sessions (ED532a and ED532b) for a total of 6 credits and 16 weeks. It is comprised of weekly student teaching debriefing sessions focusing on ongoing issues during the 16-week student teaching experience. Students complete the N.H. TCAP focused on Teacher Education Standards (N.H. Chapter Ed 600, Part Ed 610 found at http://www.gencourt.state.nh.us/rules/state_agencies/ed600.html).

www.gencourt.state.nh.us/rules/state_agencies/ed600.html). Job search strategies and interview skills will be developed. Students are recommended to take Content area testing (i.e., Praxis II test) and the Foundations of Reading Test prior to the start of student teaching. Prerequisites: Completion of the Student Teaching application process

ED532B Student Teaching Secondary Cert 3.0 Credits

This culminating experience involves two consecutive sessions (ED532a and ED532b) for a total of 6 credits and 16 weeks. It is comprised of weekly student teaching debriefing sessions focusing on ongoing issues during the 16-week student teaching experience. Students complete the N.H. TCAP focused on Teacher Education Standards (N.H. Chapter Ed 600, Part Ed 610 found at http://www.gencourt.state.nh.us/rules/state_agencies/ed600.html). Job search strategies and interview skills will be developed. Students are recommended to take Content area testing (i.e., Praxis II test) and the Foundations of Reading Test prior to the start of student teaching. Prerequisites: Completion of the Student Teaching application process

ED540 Assess/Ident of the Excep Learner 3.0 Credits

This course in assessment and identification of disabilities will provide the student with a general understanding of disabilities' assessment - formal and informal, including important factors to be considered in disabilities' assessment. Assessment information will be used to develop and evaluate individual education plans and alternative methods of teaching. Additional Pre-requisites: ED508; ED509; ED515; ED518; (or equivalents) or Director of Education Approval.

ED541 IEP and Instructional Consideration 3.0 Credits

This course focuses on providing the teacher candidate with the knowledge and skills to develop Individual Education Programs with appropriate instructional accommodations. Teacher candidates will learn evidence-based strategies to assist the K-12 student access the general education curriculum. The impact of disabilities & cultural and linguistic diversity on college and career readiness is explored. 15 hours Field Experience is required. Prerequisite: ED540

ED545 Effective Consult & Communication 3.0 Credits

The focus of this course will be on the development of effective consultation and communication skills of disabilities specialists necessary for successful educational programming and remediation plans for exceptional children. The course will also emphasize the ability to communicate with teachers, other specialists, parents, school personnel, community and transitional agencies, etc. Additional Pre-requisites: ED540 & 541 or Director of Education Approval

ED562A Student Teaching Gen Special Ed 3.0 Credits

This culminating experience for students in General Special Education involves 16 weeks in 2 different settings (high school, elementary, and middle school) determined by conditions of employment and early field hours completed) specific to working with students with special needs. Includes Seminar. Students seeking only general special education certification must enroll in this course for two consecutive sessions (ED562a and ED562b) for a total of 6 credits and 16 weeks. Where they will spend each eight weeks may be individually determined based on field experience hours and locations, and must be approved by the Placement Coordinator and the Director.

ED562B Student Teaching Gen Special Ed 3.0 Credits

This culminating experience for students in General Special Education involves 16 weeks in 2 different settings (high school, elementary, and middle school) determined by conditions of employment and early field hours completed) specific to working with students with special needs. Includes Seminar. Students seeking only general special education certification must enroll in this course for two consecutive sessions (ED562a and ED562b) for a total of 6 credits and 16 weeks. Where they will spend each eight weeks may be individually determined based on field experience hours and locations, and must be approved by the Placement Coordinator and the Director.

ED565A Student Teaching Dbl Cert 3.0 Credits

This culminating experience is for students in a double certification track, for example secondary or elementary with General Special ED, involves a customized plan approved by the Coordinator and Director. The amount of time spent in a variety of settings and grade levels will be distributed so as to provide a full opportunity for teaching and learning in both areas of certification. Students seeking dual (more than one) certifications must enroll in this course for three consecutive sessions (ED565A, ED565B, and ED565C) for a total of 9 credits and 26 weeks. They will spend sixteen weeks in the first certification area, and then an additional 10 weeks in Special Education. The placements will be individually determined based on certification grade spans as well as field experience hours and locations, and must be approved by the Field Placement Coordinator and Director. Prerequisite: Completion of the Student Teaching application process

ED565B Student Teaching Dbl Cert**3.0 Credits**

This culminating experience is for students in a double certification track, for example secondary or elementary with General Special ED, involves a customized plan approved by the Coordinator and Director. The amount of time spent in a variety of settings and grade levels will be distributed so as to provide a full opportunity for teaching and learning in both areas of certification. Students seeking dual (more than one) certifications must enroll in this course for three consecutive sessions (ED565A, ED565B, and ED565C) for a total of 9 credits and 26 weeks. They will spend sixteen weeks in the first certification area, and then an additional 10 weeks in Special Education. The placements will be individually determined based on certification grade spans as well as field experience hours and locations, and must be approved by the Field Placement Coordinator and Director. Prerequisite: Completion of the Student Teaching application process.

ED565C Student Teaching Dbl Cert**3.0 Credits**

This culminating experience is for students in a double certification track, for example secondary or elementary with General Special ED, involves a customized plan approved by the Coordinator and Director. The amount of time spent in a variety of settings and grade levels will be distributed so as to provide a full opportunity for teaching and learning in both areas of certification. Students seeking dual (more than one) certifications must enroll in this course for three consecutive sessions (ED565A, ED565B, and ED565C) for a total of 9 credits and 26 weeks. They will spend sixteen weeks in the first certification area, and then an additional 10 weeks in Special Education. The placements will be individually determined based on certification grade spans as well as field experience hours and locations, and must be approved by the Field Placement Coordinator and Director. Prerequisite: Completion of the Student Teaching application process.

ED574 Student Teaching Seminar**1.0 Credit**

This seminar is taken concurrently with ED531, ED532, ED562, or ED565 - Student Teaching. It is comprised of weekly student teaching debriefing sessions focusing on ongoing issues during the 16- or 24-week student teaching experience. Students are expected to make calendar entries in their Student Teaching Handbook, maintain a journal, as well as complete their certification portfolio and the NH-TCAP. Prerequisites: all Education methods courses, or Dean or their designee and Director of Education permission; must be taken concurrently with either ED531, ED532, ED562, or ED565.

ED578 Action Research in the Classroom**3.0 Credits**

This course is required for all M.Ed. programs. Students develop an action research plan having an instructional focus in their area of program concentration with an emphasis on research design. Attention is given to Human Subjects Protection and completion of IRB protocols. Upon completion of all course materials and approval of IRB, students with approval may proceed to ED580.

ED585 Student Research Capstone**1.0 Credit**

This course is designed for those graduate students who are not seeking certification. Students are expected to revisit the Action Research plan that they created in ED578. After adjusting for potential changes in career goals, each candidate will choose between the two options listed here. 1. Execute the research proposal detailed in the final paper for ED578. The proposal will be formally submitted to the Franklin Pierce IRB for approval. Adjustments may be made for access to subjects and an appropriate K-12 school. 2. Should the candidate decide that an action research project is not feasible, due either to job/personal constraints or a change in preferred focus, the project will become a research assignment. This option will include a deeper dive in published literature and first-hand accounts or primary documents. Prerequisites: all Education courses, or Dean or their designee and Director permission.

ED600 Law & Ethics:Emotional Behavioral**3.0 Credits**

This course covers law, ethics, and educational decisions needed as a professional educator, as well as legal and educational systems, demands of IDEA versus NCLB, role of transitioning and technology to improve student outcomes. The perspective is on inclusion and common core standards-based curriculum and professional collaboration.

ED601 Eligibility Students Disabilities**3.0 Credits**

This course emphasizes the history, prevalence, etiology and characteristics of students with specific learning disabilities, emotional behavioral disorders, intellectual disabilities and other developmental disabilities with an emphasis on autism. Procedures for determining eligibility are covered including the complexity of overlapping and comorbid disabilities/conditions.

ED604 Adv Bhvr Mgt School Children/Youth**3.0 Credits**

Students will gain an increased understanding of cognitive and behavioral strategies used to improve access to the general education curriculum for students with complex social, emotional, and behavioral difficulties. Applying concepts and procedures, students will identify and measure challenging behaviors, conduct behavior assessments through observations, interviewing, analyzing data and developing a behavior intervention plan.

ED612 Strategies Tch Student Disabilities 3.0 Credits

Teaching students with specific learning disabilities requires knowledge of the learner, comprehension of how students acquire knowledge/skills and knowledge of effective, research-based strategies and methods. This course focuses on methods and strategies to promote metacognitive skills that encourage the use of one's inner voice and mind's eye/visualization to facilitate engagement, understanding and learning. Prerequisites: ED508, 509, 512, 540, 541, 545 or permission of the Director of Education. 20 hours of Field Experience is required.

ED616 Imp Outcomes Stud w/Specific Disab 3.0 Credits

While the continuum of services continues to exist, research supports that the majority of students with Learning Disabilities benefit from "inclusion". This course addresses the challenging role for the teacher of students with learning disabilities: developing programs that integrate common core standards and address the Individual Education Plan goals for each student within the general education curriculum. Field Assignments required. Prerequisites: ED508, ED509, ED512, ED540, ED541, ED545, or permission of the Director of Education.

ED617 Imp Outcomes Stud w/ E/BD 3.0 Credits

This course will focus on elements of programming for students with emotional/behavioral disorders (EBD). Teacher candidates will learn methods used in effective academic and social programs. They will evaluate methodologies and construct a successful program for students with EBD. Implications of cultures, parent-teacher communication, and challenges identified within the EBD category will be studied. Field Assignments required. 15 hours of field experience is required. Prerequisites: ED508, ED509, ED512, ED540, ED541, ED545 or permission of Director of Education.

ED618 Support Student Emotional Disorders 3.0 Credits

Teacher candidates will gain understanding of the roles and responsibilities for educators of students with emotional/behavioral challenges. Teacher candidates will study behavioral change basics, Functional Behavioral Assessments (FBA), intervention strategies and develop a comprehensive resource guide. Collaboration and information regarding technological advances are key in Special Education. Teacher candidates will learn skills to be effective in these areas (Field assignments required). Prerequisites: ED508, ED509, ED512, ED540, ED541, ED545, or permission of Director of Education.

ED620 Transition, Sexuality, Legal Issues 3.0 Credits

Autism Spectrum Disorder (ASD) is a neurodevelopmental disorder that affects 1 in 68 children. This course focuses on three critical areas that directly impact the student with autism spectrum disorder: Transition, Sexuality, and Legal Cases. Thoughtful and reflective transition planning from secondary education is a major consideration for those with autism spectrum disorders to be successful as they transition into adulthood. This course will provide participants with an in-depth understanding of the concepts related to positive transition planning for youth with autism. Additionally, this course explores two other topics where there is little information shared on a routine basis among schools, practitioners, and families. Sexuality and how to sensitively teach topics related to one's growth and development in this area will be examined. Further, this course examines legal cases that involve adolescents and adults on the spectrum with dialogue around why and around prevention strategies for those considered to be some of our most vulnerable as it comes to applications and understanding of the law.

ED625 Autism Spectrum Disorders 3.0 Credits

Autism Spectrum Disorder (ASD) is a neurodevelopmental disorder that affects 1 in 68 children. Although we do not yet understand the etiology, the neural and genetic bases, or even the underlying psychological nature of ASD, we are gradually making progress in describing fundamental behavioral phenomena associated and in drawing implications for effective intervention. This course focuses on research-based methods and instructional approaches to use in educating children and youth with autism. Particular attention is given to addressing the social, communication and behavioral deficits many students with autism have as part of their disorder. Practical application of these techniques will be explored through interactive dialogue and engaging assignments aimed at real world approaches to meeting the needs of a student with autism. Social communication, cognitive development, behavior management, and daily living skills are some of the areas addressed in this course.

ED627 Current Trends and Issues in Autism 3.0 Credits

Autism Spectrum Disorder (ASD) is a neurodevelopmental disorder that affects 1 in 68 children. This course will lay the foundation for the current trends in ASD. Theories of practice will be discussed in depth. Throughout this course, connections will be made to the historical development, the governing legislation, the theoretical foundations, and developmental theories that support our current understanding of ASD. Students will gain a solid understanding for the support networks that are needed for individuals with ASD and their families. Pre-req: ED 509, ED 540, ED 541, ED 511 or permission of instructor/Director of Education.

ED629 Social Communication and Autism**3.0 Credits**

Pragmatics, often referred to as social communication, relates to how one interprets and uses language within a social context. It is the implicit meaning of our communication rather than the explicit meaning. Individuals with autism have varying social communication deficits, thus, require individualized instruction and specific strategies and supports to make gains in this area. This course will be devoted to a discussion of pragmatics and what the teacher, parent, or community member needs to know. Topics to be covered include how language impacts pragmatics, typical and atypical development of social communication, current research, treatment options, and social and educational impact in school, at home and in the community. Pre-req: ED 509, ED 540, ED 541, ED 511 or permission of instructor/Director of Education.

SOE501 Foundations in Education**3.0 Credits**

Examines the historical, philosophical, and sociological foundations of education in k-12 public and private schools, higher education and corporate / non-profit agencies. Explores the role of innovative practices, including technology to expand access to education. Introduces the legal and ethics boundaries for professional practices.

SOE505 Learning and Educational Practices**3.0 Credits**

The course provides a broad overview of some of the influential learning theories and the implications of these theories for educational practice. This course will distinguish pedagogy from andragogy, allowing students to demonstrate knowledge through design of learning activities designed for an appropriate audience.

SOE511 Action Research I**3.0 Credits**

This course is designed to assist educators to explore a significant issue in a specific educational setting. The course introduces the principles and methodology of Action Research. Students will develop the introduction and literature sections of their Action Research proposal and will review the IRB request form for the Action Research capstone project.

SOE512 Action Research II**3.0 Credits**

This course is designed to assist educators to develop an action research proposal and the IRB request form for the Action Research capstone project. Students will complete the research methodology, informed consent forms and data collection tools for use in a personalized action research project. Prerequisite: ED511.

SOE521 Legal Issues in K-12 Schools**3.0 Credits**

This course explores legal, ethical and politics issues governing PreK-12 education in America. Students will examine the powers of state and local governing bodies and the rights and responsibilities of teachers, staff, administration, and families in elementary and secondary schools. This course allows educators to learn about law and legal research

SOE525 Foundations Curriculum Instruction**3.0 Credits**

This course will explore the national, state, and local standards for student learning as they relate to the curriculum development process. Participants will design meaningful curriculum models and contextualized learning activities in the context of these standards. The course will pay particular attention to the theoretical and conceptual foundations of curriculum and development and instructional design for the elementary grades, secondary grades, and Special Education K-12.

SOE532 Foundations Technology Ed Leaders**3.0 Credits**

This course is an innovative educational technology course which focuses on techniques, strategies, resources, and tools for designing, developing, implementing and evaluating aspects of technology use in a variety of education settings. It examines the latest research-based approaches to technology use as it also explores the ethical, social, and scientific ramifications of technological developments in education. The course will provide a foundation in educational technology to help navigate and lead in the rapidly changing educational environment.

SOE541 Legal Issues in Higher Education**3.0 Credits**

This course explores the legal issues affecting higher education. While the course will explore a board array of legal areas, it will focus primarily on student affairs profession. The course allows educators to learn about law and legal research.

SOE545 Foundations in Higher Education**3.0 Credits**

This course will explore the philosophical perspectives that shape higher education. Particular attention will be paid to the history of higher education and the shifting focus on who is served, what is instructed and how success is measured.

SOE555 Diversity Multicultural Views Ed 3.0 Credits

The course will examine how students in the school setting are impacted by issues related to race, diversity, and equity in modern society. This course encourages sensitivity to help learners take an unbiased look at many different cultural groups, and how using both culture and student experiences in the learning environment will help students achieve at the highest level. It will explore cultural assumptions, attitudes, and values that shape our perceptions and predicate our actions. Learners will gain an appreciation and understanding of diversity and how to identify effective practices and teaching styles to use to foster learning. Those who participate in this course will come to appreciate the importance of an equitable education for all children.

SOE599 Independent Study 3.0 Credits

Independent study offers an opportunity to explore an area of study not included in the Catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Director and the Dean or their designee no later than the end of the add/drop period of the term in which the Independent Study is to occur. Normally, the student will be expected to have a cumulative grade point average of 3.50 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar's website.

SOE601 Authentic Leadership 3.0 Credits

This course prepared students to become leaders in educational settings by examining one's personal leadership development. Students will explore leadership theory through a series of self-reflective activities that will be applicable to their proposed educational settings.

SOE611 Action Research III 3.0 Credits

This course is designed to assist educators to implement a comprehensive action research process in the context of a specific educational setting. Students will utilize the tools developed in Action Research II to collect data. Prerequisite: SOE512 and IRB proposal approved.

SOE612 Action Research IV 3.0 Credits

This course is designed to assist educators to complete the Action Research project, including data analysis, documentation and presentation. Can be retaken one time to complete the project

SOE621 Universal Design for Learning 3.0 Credits

This course focuses on the application of Universal Design for Learning (UDL) principles, which emphasize the use of multiple means of representation, expression and engagement during lesson development in order to effectively reach the widest possible number of students from the outset, rather than through individual "retrofits" of instruction and assessment. Participants will learn to transform assessments and instruction using tools and strategies that make curricular access for all students a reality.

SOE625 Data Driven Decision Making 3.0 Credits

This course examines the impact of current trends of data driven decision making as a national and state level movement. Students will critically analyze the strengths and limitations of standardized testing and of competency/performance-based assessments. Students will examine, explore, analyze, and utilize student's/learner's data to guide decision making and reform efforts in an educational setting.

SOE627 Educational Leadership 3.0 Credits

This course provides educators with an exploration of the systems and structures in a K-12 school system. Students will examine the purpose of mission, vision and core values, the role of responsive leadership, the diversity and complexity of stakeholders, Educators will ultimately identify a critical systemic concern and develop a detailed strategic plan.

SOE641 Princ & Pract Student Affairs 3.0 Credits

This course provides an introduction to student affairs in higher education. It examines the student affairs professions in the effects these roles have on the development of diverse student populations.

SOE699 Practicum in Educational Leadership 0.0 Credits

Practicum in Educational Leadership (1-3 credits). The practicum creates an opportunity for a student to immerse one's self into an authentic situation in which to gain valuable career experience. Each credit is approximately 40 hours. Can be taken multiple terms.

GL

GLE101 First-Year Inquiry Freshman Seminar 3.0 Credits

First Year Inquiry is a required course for all first-year students at Franklin Pierce University. Students select one of approximately twenty academically-engaging, inquiry-based topics based on their interests. Each section, regardless of theme, works on improving students' academic skills, and addresses three goals of a Franklin Pierce Education---information literacy, inquiry and analysis, and career exploration. Readings, writing assignments, and activities are used to stimulate thinking about inquiry and decisions about students' possible career opportunities. Students may not withdraw from the course; they may repeat it in the spring of the freshmen year. Students must pass this course to demonstrate proficiency in the skills coded for this course. Students who do not pass the course a second time may take GLE103 as a substitute for GLE101. Addresses GLE Learning Outcomes Career Exploration, Inquiry & Analysis and Information Literacy

GLE112 Integrated Science I 4.0 Credits

A multi-disciplinary introduction to the sciences from an environmental perspective, presenting basic concepts and controversies with discussions on biology, chemistry, energy, geology, natural resources interconnect with the environment. These courses are designed to improve the scientific and technical literacy of students not majoring in a scientific discipline. Students become familiar with some of today's primary scientific concepts, how these concepts have developed, and how they evolve. Addresses GLE Learning Outcomes Natural Sciences (NS), Inquiry & Analysis (IA) and Critical Thinking (CT).

GLE113 Integrated Science II 4.0 Credits

A multi-disciplinary introduction to the sciences from an environmental perspective, presenting basic concepts and controversies with discussions on biology, chemistry, energy, geology, natural resources interconnect with the environment. These courses are designed to improve the scientific and technical literacy of students not majoring in a scientific discipline. Students become familiar with some of today's primary scientific concepts, how these concepts have developed, and how they evolve. Addresses GLE Learning Outcomes Natural Sciences (NS), Inquiry & Analysis (IA) and Critical Thinking (CT).

GLE200 Twentieth Century: Global Approach 3.0 Credits

Examines the twentieth century, an era that has been characterized by change. This includes change in political boundaries, technological capability, response to religion, philosophy and the arts, and change in how people think. The course examines some of the major events of the century from different perspectives, in order to try and gain understanding of the period and its change. The goals of the course include: a fundamental understanding of the major events that shaped the century; a sense of the sources of contemporary problems; exposure to artistic and cultural developments and their historical context; the development of a chronological sense of the century; and an extension of the world view beyond ethnocentric limitations. Addresses GLE Learning Outcomes Humanities, Critical Thinking and Intercultural Knowledge.

GLE205 American Soundscape 3.0 Credits

This course is designed to examine how musical expressions are manifested in particular moments of the United States of America's history, society and culture. Special attention will be given to how the nature, form, function and content of the music are a reflection of the political, economic, aesthetic, historical, social and cultural milieu. The music and songs of the United States of America will be approached with a pedagogy that is both analytical and critical through the use of the historical sources, primary documents, recordings and performances. Addresses GLE Learning Outcomes Humanities (HM), Critical Thinking (CT) and Intercultural Knowledge (IK).

GLE210 Ancient and Medieval Worlds 3.0 Credits

Ancient and Medieval Worlds is a General and Liberal Education course which addresses three Learning Outcomes of a Franklin Pierce Education: Humanities Knowledge and Understanding, Critical Thinking, and Intercultural Knowledge. This course is structured as a Pilgrimage in which participants journey, chronologically, through time, in order to experience significant historical and cultural aspects of the ancient Greek, Roman, and medieval European societies. If you enjoy learning about the past and are curious to discover how historical events have influenced the ways we interact, think, and seek happiness in the modern world, then this is the course for you. Addresses GLE Learning Outcomes Humanities (HM), Critical Thinking (CT) and Intercultural Knowledge (IK). Prerequisite: Sophomore Status.

GLE215 Rebirth to Revolution 3.0 Credits

This course provides an interdisciplinary understanding of the human condition through investigation, appreciation and evaluation of the aesthetic, historical, philosophical, and literary dimensions of human experience. Study will involve the time period between 1400-1850. Addresses GLE Learning Outcomes Humanities (HM), Critical Reading (CR) and Critical Thinking (CT)

GLE220 America's Themes and Dreams

3.0 Credits

This course explores America's Themes & Dreams in the unfolding of the culture, history, politics, heritage and progress that generate the modern U.S. Lately, traditional assumptions demand new testing as we face new questions about American values and struggles. This course will focus on three themes or dreams in three distinct time frames. Texts chosen for input on these aspects of American society operate alongside film and music to highlight important milestones along the way. Addresses GLE Learning Outcomes Humanities and Critical Thinking

GLE230 Second-Year Composition

3.0 Credits

Second-Year Composition is the second writing-intensive course required of all undergraduates at the University, offering discipline-specific sections serving a variety of academic interests. The course emphasizes persuasive and researched writing, revision, and composing in various forms and media. Students will continue to develop reading comprehension, rhetorical knowledge and facility with the writing process as well as the conventions of Standard Academic English in both writing and presentation. Addresses GLE Learning Outcomes for Written Communication (WC) and Oral Communication (OC), as well as opportunities to further develop Information Literacy (IL) and Inquiry and Analysis (IA). Prerequisite: C or better in GLE110.

ME541 Human Anatomy II

3.0 Credits

This course is the second in a series of four courses designed to acquire understanding of normal clinical anatomy, through an organ systems-based approach. This course covers the cardiovascular, pulmonary and gastrointestinal systems. Lectures will be synchronous and include both anatomy and physiology content. We will use programs that provide the opportunity to explore anatomy in a virtual setting. Laboratory assignments will be completed using Visible Body®, Primal Pictures software and Anatomy Physiology Revealed®. Offered Term I (Fall)

NR730 Mental Health Nursing

3.0 Credits

This course promotes exploration of factors that affect psychological wellness and illness of individuals. Students will explore the unique needs of individuals with mental-health issues across the lifespan, examining their responses to life stressors while considering cultural, psychosocial and ethical factors. Co-requisite: NR731 Psychiatric and Mental Health Nursing Practicum (clinical).

GR

GI550 Database Technologies

3.0 Credits

This course provides the fundamental concepts necessary to understand, develop, analyze, evaluate, and manage computerized database applications. Students become acquainted with the terminology associated with discrete field data collection, conversion, integration, and report presentation utilizing current generation database development programming. Students will research the adaptability, scalability and practical utilization of databases. Prerequisite: CIT244 or equivalent.

GI551 Data Communications & Network Tech

3.0 Credits

This course provides an understanding of basic network technologies, applications, and management issues. Students explore how networks operate, the business advantages of a network environment, LAN and WAN network design, planning, and implementation. Topics include network topologies, protocols, hardware, software, and security. Prerequisite: CIT244 or equivalent

GI571 Emerging Network Technologies

3.0 Credits

In this course students identify and research emerging technologies and the impact and application of such technologies to current and projected business environments. Students review the current technological environment and explore the technical and business implications of implementing emerging technologies on that environment. Prerequisite: GI551

GI580 Data Security Management

3.0 Credits

This course studies threats to data security and the alternatives to manage those threats. Students identify networks and hardware as tools to provide users with access to data, and as potential targets for attacks, steps to protect technology infrastructure, and how to implement security solutions based on cost/benefit analysis. Topics include: security policies, data encryption, Internet, and physical security. Prerequisite: GI551

GI590 Rethinking Privacy in Digital Age

3.0 Credits

This course examines the history and evolution of privacy and societal shift underway due to the impact of digital technologies. Students analyze privacy starting with the US Constitution, compare it to other countries' privacy, review the law on privacy, and explore the impact of technology. Topics include digital surveillance, protections, organizations active in protecting privacy, and digital shadow information leakage.

- GI610 eCommerce 3.0 Credits**
The course overviews the principles and concepts needed to build and manage an e-business. Students analyze reasons and criteria to help decide whether to launch an e-business unit, and what would be the most appropriate model. Topics include: strategies and techniques to market products and services; social, ethical, and legal considerations, payment methods; and security issues. Prerequisite: GM561 or GM562
- GI651 Systems Analysis and Design 3.0 Credits**
This course highlights the emerging organizational, technical, and human skills needed by professionals in the information systems field. Students select their own development projects. Topics include: traditional and object-oriented approaches to systems analysis and design. This capstone course also provides the framework for completion and evaluation of the leadership portfolio. Note: This course may not be transferred into the program. Prerequisites: Completion of all required GM and GI500-level courses
- GM510 Seminar in Leadership 3.0 Credits**
This course examines effective approaches to leadership. This includes examination of leadership models, problem solving, ethics, strategic styles of interaction, decision-making techniques and effective strategies for implementing goals. Students may not transfer a course in substitution for Seminar in Leadership.
- GM520 Legal Ethical Issues Organizations 3.0 Credits**
This course examines legal and ethical dimensions of decision making and impact on corporate and public policy. It places emphasis on exerting effective leadership as related to ethical behavior. This course examines contract and agency law, property, business organization and fair pricing are examined from a legal and ethical perspective in business.
- GM525 Management Information Systems 3.0 Credits**
This course provides the fundamental concepts necessary to understand, develop, and manage information systems in organizations. Students will examine the operational, managerial, and strategic issues of managing information technologies to support business operations. Topics include the role of information technology in organizations; hardware; software; ethical issues and the control of information technology.
- GM535 Managerial Comm & Research Methods 3.0 Credits**
The purpose of this course is to develop the ability to communicate effectively as managers. The course uses communication theories, techniques and strategies to present a functional communication model. Topics include communication strategy and analysis; managerial presentation skills; managerial writing; and corporate communication.
- GM541 Managerial Accounting 3.0 Credits**
This course takes the student beyond the preparation of financial statements to budgeting, recording, reporting and analyzing both financial and nonfinancial accounting information to be used by managers within organizations. This analysis provides the basis for managers to make informed business decisions. Prerequisite: Competency in Accounting
- GM542 Quantitative & Research Techniques 3.0 Credits**
This course examines the role of quantitative research methods in leadership and decision making. It requires students to take an analytical view of decision-making by quantifying trade-offs, specifying constraints and allowing for uncertainty. Students explore the development of models and the role of managerial judgment in assessing the appropriateness of these applications as a basis for leadership decisions. Prerequisite: Competency in Statistics
- GM543 Economics for Managers 3.0 Credits**
This course deals with the application of fiscal and monetary policy tools. The framework for achieving the goal is threefold: 1) understand economic analysis, 2) use economic analysis to evaluate current developments and the financial news, and 3) use economic tools and principles to predict future events. Prerequisites: Competencies in Micro-and Macroeconomics
- GM550 Future/Energy Business and Society 3.0 Credits**
This course examines the interaction of energy usage, business and society. Students study corporate social responsibility, socially responsible investing, doing business in less developed countries and the role energy will play in future business development, including the social, community and political road blocks encountered in new and existing energy ventures. Prerequisite: GM510

GM561 Financial Management 3.0 Credits

This course concerns the management of financial resources. Topics include capital structure, present value, valuation, financial planning, as well as risk management. Sound management strategy is applied to decision-making. Prerequisite: Competency in Accounting

GM562 Marketing Management 3.0 Credits

This course provides a managerial approach to the identification and analysis of marketing problems through strategy development. It covers processes for searching for and identifying prospective opportunities, as well as a review of the marketing mix elements relating to planning, development and implementation of a marketing plan.

GM563 Human Resource Management 3.0 Credits

This course deals with the real world objectives, actions and practices involved in human resource management, using an analytical and systematic approach. It describes relevant theories and research about human behavior and presents leading-edge practices that illustrate how human resource management can achieve both efficiency and equity in the employment relationship.

GM564 Operations Management for Leaders 3.0 Credits

This course provides an understanding and appreciation of the concepts and methods used in the daily control of production and inventory in manufacturing and service organizations. It also addresses the efficient and effective use of resources, systematic direction and control, transformation of inputs into finished goods and operations strategy. Prerequisite: Competency in Statistics

GM565 Compensation and Benefits 3.0 Credits

This course examines compensation and benefits plans and practices within U.S. and global organizations and the ways in which they impact the management functions throughout the organization.

GM570 Training and Development 3.0 Credits

This course focuses on methods for using training and development to create more productive organizations. It explores the conduct of needs assessments and the design and implementation of training programs to address those needs, analysis and application of adult learning theories.

GM575 Building a Sustainable Enterprise 3.0 Credits

Adopting a systems approach, this course studies the concepts of sustainable business practices. Students discuss resources such as food, water, energy and raw materials, as they consider their effect on a business enterprise. This course examines how profitability and sustainability interact in the triple bottom line concept. Prerequisite: GM561

GM592 Health Policy 3.0 Credits

This course provides an in-depth analysis of the issues and laws affecting health policy. It explores the political and social environment in which policy decisions are made, and the consequences of such decisions. Students discuss specific health issues in local communities to determine the effect of local and governmental policies on those problems.

GM594 Health Care Payment Systems 3.0 Credits

This course examines the payment sources for health care service including health maintenance organizations, indemnity plans, prospective payment systems, pricing and reimbursement. Through case studies, the student analyzes the impact of health care payment on employers, providers, consumers and society.

GM596 Quality Improv Models in Healthcare 3.0 Credits

This course focuses on how health care institutions use the quality improvement process and a variety of models to gain control of system frustrations. Cases focus on models that work in a variety of institutions with specific attention to issues of time, patient acuity and other topics of current interest. This course utilizes current and past health care research as a point of discussion.

GM599 MBA-Independent Study 3.0 Credits

Independent study offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Program Director and Dean no later than the end of the add/drop period of the term in which the Independent Study is to occur. Normally, the student will be expected to have a cumulative grade point average of 3.50 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Office of the Registrar.

GM610 Human Resource Management Seminar 3.0 Credits

The purpose of this course is to encourage critical inquiry and collaboration. This course provides students the ability to apply key skills in human resource management either through an Applied Action Research assignment or through an internship. Students must submit a request form to the HR Academic Director and receive written permission before enrolling the course. Prerequisites: GM 510, GM 520, GM 563, GM 565, GM 570, and CGPA of 3.50 or better.

GM625 Labor Relations & Employment Law 3.0 Credits

This course focuses on essential aspects of employment law at the international, federal, and state levels throughout the employment life cycle, from hiring through termination. Students will have the opportunity to apply topics through applied learning assignments in order to develop a solid understanding on how to implement appropriate and effective HR policies and procedures for an organization.

GM630 Energy Economics 3.0 Credits

This course provides the student with an overview of energy production, transportation and usage and how economics, technology, and sustainability issues interact. Students examine traditional non-renewable energy sources and renewable sources. The course studies worldwide markets for energy and the need for conservation, and considers further exploitation and improved technology. Prerequisites: GM561

GM640 International Management 3.0 Credits

This course focuses on leading a global enterprise, including the challenges of managing across national boundaries and within foreign countries, and the coordination of global management programs. It introduces the nature of international operations, including issues of culture, politics, physical geography, and infrastructure.

GM691 Strategic Management Seminar 3.0 Credits

This course integrates leadership skills and knowledge from all functional business areas to develop, implement and evaluate organizational strategic plans. This capstone course challenges students to work cooperatively to design a complex organization using concepts learned throughout the course of study. Note: This course may not be transferred into the program. Prerequisites: Completion of all M.B.A. coursework at the 500 level.

ME009 SCPE 0.0 Credits

ME009 is the centralized course during the PA student's clinical rotations.

ME010 SCPE Placeholder 10.0 Credits

SPCE Placeholder

ME015 SCPE Placeholder 15.0 Credits

SCPE Pending

ME500 Introduction to Clinical Reasoning 1.0 Credit

This course will introduce students to the process of integrating data collection into a patient assessment and plan in lecture and facilitated small-group format. Concepts of differential diagnoses, use of diagnostic studies, and synthesizing data will be discussed. Students will learn oral and written case presentation skills. Students demonstrate competence through written evaluations, small group presentations, and written assignments.

ME501 Introduction to Health Professions 1.0 Credit

In this course the student will be given the opportunity to: 1) examine the role of the physician assistant in health care delivery and the scope of PA practice; 2) interpret health policy and law; 3) review the physician assistant profession and its history; 4) discuss the ethical dimensions in health care; and 5) recognize the PA role in interprofessional health care.

ME503 Clinical Pharmacology I 2.0 Credits

This course is the first in a series of four courses designed to introduce students to the broad scope of clinical pharmacology through an organ systems-based approach. The Clinical Pharmacology I course will specifically cover the basic principles of pharmacology, principles of pharmacogenomics, anti-infective agents, and dietary supplements and herbal medications, as well as cover therapeutics used to treat conditions found in the dermatological, ophthalmological, and otorhinolaryngological (ENT) organ systems. During this course, the student will be given the opportunity to demonstrate the ability to: 1) identify the classes of drugs used to treat diseases commonly encountered in a primary care and emergency settings; 2) recognize the commonly used drugs in each class; 3) identify the basic pharmacodynamic properties of each class of drug, the mechanism of action, and important consequences of using each class

of drug; 4) recognize the signs and symptoms of common adverse effects and of possible toxic or life-threatening effects of drugs; 5) identify precautions or contraindications to the use of a drug; 6) identify significant drug-drug interactions; 7) recognize the importance of patient education in determining compliance, avoidance of potential problems, and success of therapy; 8) apply statistical and critical thinking skills to evaluate literature data; 9) use resource materials for determining proper usage of chemotherapeutic agents; and 10) understand the role of the physician assistant in writing prescriptions.

ME504 Pharmacology I

2.0 Credits

This is the first course, in a series of three that provides foundational knowledge by which pharmacotherapies alter the function of cells to relieve symptoms and the physiologic manifestations of disease. The course is an introduction to the principles of drug action, metabolism, elimination and toxicity. The focus is on medications used to treat specific disorders including infectious diseases, neurological conditions and the musculoskeletal system.

ME506 Pharmacology II

2.0 Credits

This is the second course, in a series of three that provides foundational knowledge by which pharmacotherapies alter the function of cells to relieve symptoms and the physiologic manifestations of disease. The course is an introduction to the principles of drug action, metabolism, elimination and toxicity. The course covers medications used to treat diseases of the cardiopulmonary systems as well as fungal, viral, and protozoal infections. Medications for targeting neoplastic cells will also be covered.

ME507 Patient Assessment I

3.0 Credits

This course is the first in a series of four courses designed to introduce students to patient assessment using an organ systems-based approach to history taking and the completion of physical examinations. The Patient Assessment I course will specifically cover general principles of history taking and physical examinations, as well as assessment components in the disciplines of dermatology, ophthalmology, and otorhinolaryngology (ear, nose, and throat). During this course, the student will be given the opportunity to 1) communicate skillfully with patients using appropriate interviewing and patient education methods; 2) obtain thorough focused and general medical histories; 3) demonstrate proper use of instruments and techniques in the performance of physical examinations; 4) apply knowledge acquired in anatomy, physiology, and other courses to the assessment of patients; 5) detect and analyze abnormal interview and physical exam findings; 6) correlate essential historical data with exam findings; and 7) discuss pertinent available patient resources

ME508 Patient Care I

2.0 Credits

The first of two courses focusing on the physical examination. The students will perform a comprehensive, patient-centered physical examination. Using appropriate medical terminology the students will document normal physical exam findings. Additionally, students will be introduced to problem-focused data collection using special tests.

ME509 Pharmacology III

2.0 Credits

This is the third course, in a series of three that provides foundational knowledge by which pharmacotherapies alter the function of cells to relieve symptoms and the physiologic manifestations of disease. The course is an introduction to the principles of drug action, metabolism, elimination, and toxicity. The focus is on drugs used to treat diseases of the endocrine, gastrointestinal, urinary and reproductive systems. This course will also introduce the pharmacology of common herbal medications and dietary supplements.

ME510 Behavioral Medicine

2.0 Credits

In this course students will learn essential skills in the assessment of and communication with varying populations of patients. The content will focus on human growth and development with emphasis on interviewing techniques, reflective practice to enhance practitioner self-awareness and self-care, and current concepts in normal and abnormal psychology. The impact of health literacy and cultural diversity on health care will also be examined. Finally, there is an introduction to the value and nature of interprofessional practice.

ME512 Clinical Apps/Basic Science I

6.0 Credits

This course is the first in a series of three courses that provides an in-depth study of topics in human anatomy, physiology, and sciences as they relate to pathophysiology and cell biology. Sessions will emphasize the clinical application of the material as it pertains to the integumentary, nervous, musculoskeletal, and immune systems. An introduction to clinical microbiology, immunology, and laboratory medicine will be included.

ME515 Clinical Medicine I

2.0 Credits

This course is the first in a series of four courses designed to introduce students to the broad scope of clinical medicine through an organ systems-based approach. The Clinical Medicine I course will specifically cover diseases found in dermatology, ophthalmology, and otorhinolaryngology (ear, nose, and throat). During this course, for each disease/disorder covered, the student will be given the opportunity to: 1) identify pathophysiological processes; 2) understand biological processes and genetics in relation to pathologic disease; 3) recognize common and atypical presentations of disease; 4) develop a high quality list of differential diagnoses; 5) design

an appropriate diagnostic approach; 6) interpret common radiological and laboratory studies needed for evaluation; 7) construct an appropriate treatment plan; and 8) recognize the impact of consulting other healthcare professionals in a patient's management as clinically indicated.

ME516 Clinical Medicine I 4.0 Credits

This course is the first in a series of four courses designed to introduce students to the broad scope of clinical medicine and disease processes including evaluation, management, and therapeutics in a system-based approach. This course will explore diseases of the skin, the musculoskeletal system and the nervous system.

ME520 Professional Seminar I 1.0 Credit

This is the first course in a series of two which introduces the student to the Physician Assistant professional and his/her role in the healthcare system. Topics of discussion include the history of the profession, professional organizations, law's affecting practice, education, stressors of the job, and the future of the profession.

ME522 Mindfulness in Medicine 1.0 Credit

The most efficient way of understanding others is by understanding oneself. This course explores the inner workings of conscious and subconscious awareness through the applied intention of mindfulness. The human psyche is designed to observe, interpret, adapt, take action, and/or change with every piece of information it receives; however, most decisions take place without the conscious mind.

ME523 Diagnostic Methods I 1.0 Credit

This course is the first in a series of three courses designed to introduce students to the different diagnostic methods available for the evaluation and diagnosis of medical conditions. The Diagnostic Methods I course will specifically cover general laboratory tests encountered in primary care as well as an introduction to the different imaging modalities including plain radiography (X-ray), computed tomography (CT), magnetic resonance imaging (MRI), and ultrasonography. During this course, the student will be given the opportunity to: 1) list commonly used diagnostic studies; 2) understand risks associated with these studies; 3) list contraindications to the use of certain studies; 4) provide basic interpretations of each diagnostic study; 5) understand the use of contrast in certain radiological studies; and 6) appreciate the difference between routine, urgent, and emergent studies.

ME524 Clinical Reasoning I 1.0 Credit

The second course in a series of four develops the student's clinical reasoning skills. Students will formulate a differential diagnosis from a patient's history and physical exam using critical thinking. Students will continue to practice interviewing and oral presentation skills.

ME528 Patient Communication & Education 2.0 Credits

This course will introduce students to patient-oriented counseling skills. Building on interviewing techniques learned in Behavioral Medicine, topics will include ways to individualize patient education through the use of motivational interviewing. There will also be continued work to enhance practitioner self-awareness and self-care. Finally, students will participate in sessions with other health care professional students focusing on communication and team building for future interprofessional practice.

ME531 Human Anatomy I 2.0 Credits

This course is the first in a series of four courses designed to acquire understanding of normal clinical anatomy, through an organ systems-based approach. This course will start with a comprehensive review of histology and an in-depth coverage of the integumentary system. It will additionally examine the normal clinical anatomy and physiology associated with eyes, ears, nose and throat. Lectures will be synchronous and include both anatomy and physiology content. We will use programs that provide the opportunity to explore anatomy in a virtual setting. Laboratory assignments will be completed using Visible Body®, Primal Pictures software and Anatomy Physiology Revealed®. Offered Term IV (Summer)

ME532 Intro Epidemiology & Public Health 2.0 Credits

This course provides an introduction to research design and epidemiological methods which form the foundation for understanding evidence-based public health and clinical medicine. Also, the role of the physician assistant in public health assessment and intervention is addressed during this course.

ME533 Basic Sciences I 2.0 Credits

This course is the first in a series of four courses designed to introduce students to the broad scope of pathophysiology through an organ systems-based approach. Students will learn the evaluation, management, and therapeutics by learning the pathophysiology of the different organ systems. This course will explore diseases of the skin and eyes, ears, nose and throat.

ME534 Evidence-Based Medicine 1.0 Credit

This course is designed to help students navigate the medical literature to find answers to clinical questions that are based on valid medical research evidence, referred to as evidence-based medicine (EBM). Understanding of research methods is essential for an effective practice of EBM as future clinicians. During this course, students will learn and practice how to: 1) formulate research and clinical questions; 2) search common databases of available medical literature; 3) differentiate between various types of research studies; 4) recognize different types of biases in research and threats to validity of research findings; 5) compare and contrast different types of sampling methods; 6) critically appraise the literature for selected clinical topics; and 7) appreciate the value of lifelong learning in the health professions.

ME535 Preventive Medicine 2.0 Credits

This course is designed to introduce students to the discipline of health promotion and preventive medicine. Many illnesses that patients suffer from and succumb to could be avoided with timely and appropriate behavioral intervention, screening, and preventive measures. Benjamin Franklin understood this concept in 1736 when he famously stated that “an ounce of prevention is worth a pound of cure”. This Preventive Medicine course will give students the evidence-based knowledge and tools necessary to impart meaningful changes in their patients’ lives. Specifically, the student will be given the opportunity to: 1) gain familiarity with methods to promote overall health and well-being; 2) discuss the importance of identifying risk factors for disease; 3) explore commonly used preventive medicine guidelines; 4) discuss different types of commonly used screening tools; 5) understand common cancer screening guidelines, 6) gain familiarity with routine immunization schedules for both pediatric and adult patients; 7) discuss the importance of smoking cessation for all patients; 8) discuss the social determinants of health and how they impact patient well-being; 9) describe patient advocacy; and 10) discuss disease reporting and surveillance, the public health system, and population health.

ME536 Patient Care II 2.0 Credits

This course follows ME508 Patient Care I. This course focuses on age-specific and special populations with respect to health promotion, disease prevention, and end-of-life care. Appropriate history taking, physical examinations, and preventive care will be covered. Additionally, examination of male and female patients will be covered.

ME540 Clinical Application/Basic Sci II 4.0 Credits

This course is the second in a series of three courses that provides and in-depth study of topics in human anatomy, physiology, pathology, clinical microbiology, and laboratory medicine. Sessions will emphasize the clinical application of the material as it pertains to the blood and cardiopulmonary systems, eyes, ears, nose and throat.

ME542 Diagnostic Methods II 2.0 Credits

This course is the second in a series of three courses designed to introduce students to the different diagnostic methods available for the evaluation and diagnosis of medical conditions. The Diagnostic Methods II course will specifically cover chest, abdomen, and vascular imaging, as well as electrocardiograms (ECGs), echocardiograms (ECHOs), and pulmonary function tests (PFTs). During this course, the student will be given the opportunity to: 1) list commonly used diagnostic studies; 2) understand risks associated with these studies; 3) list contraindications to the use of certain studies; 4) provide basic interpretations of each diagnostic study; 5) understand the use of contrast in certain radiological studies; and 6) appreciate the difference between routine, urgent, and emergent studies.

ME543 Basic Sciences II 2.0 Credits

This course is the second in a series of four courses designed to introduce students to pathophysiology with an organ systems-based approach. Students will integrate anatomic and physiologic principles to develop an understanding of selected diseases with an emphasis on epidemiology, etiology, pathophysiology, and clinical manifestations. This course will explore diseases of cardiovascular, pulmonary and gastroenterological systems

ME544 Clinical Medicine II 5.0 Credits

This course continues the exploration of clinical medicine and disease processes including evaluation, management, and therapeutics pertaining to diseases of the cardiovascular and pulmonary systems. This course will also include modules discussing the diagnosis and treatment of psychiatric disorders and hematological disorders.

ME545 Clinical Medicine II 3.0 Credits

This course is the second in a series of four courses designed to introduce students to the broad scope of clinical medicine through an organ systems-based approach. The Clinical Medicine II course will specifically cover diseases found in the cardiovascular, pulmonary, and gastrointestinal systems. During this course, for each disease/disorder covered, the student will be given the opportunity to: 1) identify pathophysiological processes; 2) understand biological processes and genetics in relation to pathologic disease; 3) recognize common and atypical presentations of disease; 4) develop a high quality list of differential diagnoses; 5) design an appropriate diagnostic approach; 6) interpret common radiological and laboratory studies needed for evaluation; 7) construct an appropriate treatment plan; and 8) recognize the impact of consulting other healthcare professionals in a patient’s management as clinically indicated.

ME547 Patient Assessment II**3.0 Credits**

This course is the second in a series of four courses designed to introduce students to patient assessment using an organ systems-based approach to history taking and the completion of physical examinations. The Patient Assessment II course will specifically cover assessment components in the disciplines of cardiology, pulmonology, and gastroenterology. During this course, the student will be given the opportunity to 1) communicate skillfully with patients using appropriate interviewing and patient education methods; 2) obtain thorough focused and general medical histories; 3) demonstrate proper use of instruments and techniques in the performance of physical examinations; 4) apply knowledge acquired in anatomy, physiology, and other courses to the assessment of patients; 5) detect and analyze abnormal interview and physical exam findings; 6) correlate essential historical data with exam findings; and 7) discuss pertinent available patient resources.

ME548 Clinical Reasoning II**1.0 Credit**

This third course in a series of four continues to develop a student's clinical reasoning skills. Students will develop a thorough assessment of the patient. In addition, the students will begin to develop a therapeutic plan. Students will continue to practice interviewing and oral presentation skills.

ME549 Clinical Pharmacology II**2.0 Credits**

This course is the second in a series of four courses designed to introduce students to the broad scope of clinical pharmacology through an organ systems-based approach. The Clinical Pharmacology II course will specifically cover therapeutics used to treat conditions found in the cardiovascular, pulmonary, and gastrointestinal organ systems. During this course, the student will be given the opportunity to demonstrate the ability to: 1) identify the classes of drugs used to treat diseases commonly encountered in a primary care and emergency settings; 2) recognize the commonly used drugs in each class; 3) identify the basic pharmacodynamic properties of each class of drug, the mechanism of action, and important consequences of using each class of drug; 4) recognize the signs and symptoms of common adverse effects and of possible toxic or life-threatening effects of drugs; 5) identify precautions or contraindications to the use of a drug; 6) identify significant drug-drug interactions; 7) recognize the importance of patient education in determining compliance, avoidance of potential problems, and success of therapy; 8) apply statistical and critical thinking skills to evaluate literature data; 9) use resource materials for determining proper usage of chemotherapeutic agents; and 10) understand the role of the physician assistant in writing prescriptions.

ME550 Behavioral Health**1.0 Credit**

During this course, the student will be given the opportunity to: 1) Identify normal physical, social, and psychosocial processes and distinguish these from processes due to illness and injury; 2) Understand the neurobiological processes and genetics in relation to mental illness; 3) Provide a foundation for assessing a patient's state of mental health and development; 4) Explain the classification of common mental illnesses set forth in the Diagnostic and Statistical Manual of Mental Disorders 5) Recognize the importance of an appropriate and timely referral; 6) Recognize the importance of other healthcare professionals in the management of patients with mental illness; 7) Recognize the importance of family and community dynamics in the management of patients with mental illness; and 8) Discover health and well-being in the clinician's personal life and how this may intertwine in the clinician-patient relationship, professionalism, and cultural competence.

ME551 Human Anatomy III**3.0 Credits**

This course is the third in a series of four courses designed to acquire understanding of normal clinical anatomy, through an organ systems-based approach. The systems that will be covered in this course are the nervous, musculoskeletal, and endocrine systems. Additionally, the immune system will be explored for better understanding of infectious diseases. Lectures will be synchronous and include both anatomy and physiology content. We will use programs that provide the opportunity to explore anatomy in a virtual setting. Laboratory assignments will be completed using Visible Body®, Primal Pictures software and Anatomy Physiology Revealed®. Offered Term II (Winter)

ME552 Professional Seminar II**1.0 Credit**

This course is the second in a series of two which explores relevant healthcare law, policy issues, ethics, and medical errors which impact the Physician Assistant profession and the US healthcare system.

ME553 Basic Sciences III**2.0 Credits**

This course is the third in a series of four courses designed to introduce students to pathophysiology with an organ systems-based approach. Students will integrate anatomic and physiologic principles to develop an understanding of selected diseases with an emphasis on epidemiology, etiology, pathophysiology, and clinical manifestations. This course will explore diseases of neurology, musculoskeletal system, endocrinology and infectious diseases.

ME554**Cross Cultural Health****1.0 Credit**

In this course, the student will be challenged to interrogate and refine his/her own belief systems as he/she works to build a general understanding of cultural knowledge. The student will be given the opportunity to recognize and mitigate factors that contribute to health disparities and limited access. The student will also learn practical strategies for engaging patients in a manner that demonstrates cultural humility.

ME555**Clinical Medicine III****3.0 Credits**

This course is the third in a series of four courses designed to introduce students to the broad scope of clinical medicine through an organ systems-based approach. The Clinical Medicine III course will specifically cover diseases found in the neurological, musculoskeletal, and endocrine systems as well as infectious diseases. During this course, for each disease/disorder covered, the student will be given the opportunity to: 1) identify pathophysiological processes; 2) understand biological processes and genetics in relation to pathologic disease; 3) recognize common and atypical presentations of disease; 4) develop a high quality list of differential diagnoses; 5) design an appropriate diagnostic approach; 6) interpret common radiological and laboratory studies needed for evaluation; 7) construct an appropriate treatment plan; and 8) recognize the impact of consulting other healthcare professionals in a patient's management as clinically indicated.

ME556**Understand & Access Medical Lit****1.0 Credit**

This course will explore the use of qualitative and quantitative research in health care, evidence-based theory, and accessing computer-based databases, as they pertain to the practice of clinical medicine. The course will continue to broaden the student's skills and training for the use of evidence to inform and continually improve the practice of clinical medicine.

ME557**Patient Assessment III****3.0 Credits**

This course is the third in a series of four courses designed to introduce students to patient assessment using an organ systems-based approach to history taking and the completion of physical examinations. The Patient Assessment III course will specifically cover assessment components in the disciplines of neurology, orthopedics, endocrinology, and infectious disease. During this course, the student will be given the opportunity to 1) communicate skillfully with patients using appropriate interviewing and patient education methods; 2) obtain thorough focused and general medical histories; 3) demonstrate proper use of instruments and techniques in the performance of physical examinations; 4) apply knowledge acquired in anatomy, physiology, and other courses to the assessment of patients; 5) detect and analyze abnormal interview and physical exam findings; 6) correlate essential historical data with exam findings; and 7) discuss pertinent available patient resources.

ME558**Diagnostic Methods III****2.0 Credits**

This course is the final in a series of three courses designed to introduce students to the different diagnostic methods available for the evaluation and diagnosis of medical conditions. The Diagnostic Methods III course will specifically cover neuroimaging, orthopedic imaging, pelvic imaging, pediatric imaging, and point of care ultrasound. During this course, the student will be given the opportunity to: 1) list commonly used diagnostic studies; 2) understand risks associated with these studies; 3) list contraindications to the use of certain studies; 4) provide basic interpretations of each diagnostic study; 5) understand the use of contrast in certain radiological studies; and 6) appreciate the difference between routine, urgent, and emergent studies.

ME559**Clinical Pharmacology III****2.0 Credits**

This course is the third in a series of four courses designed to introduce students to the broad scope of clinical pharmacology through an organ systems-based approach. The Clinical Pharmacology III course will specifically cover therapeutics used to treat conditions found in the neurological, musculoskeletal, and endocrine systems, as well as drugs used to treat obesity and special topics in infectious disease. During this course, the student will be given the opportunity to demonstrate the ability to: 1) identify the classes of drugs used to treat diseases commonly encountered in a primary care and emergency settings; 2) recognize the commonly used drugs in each class; 3) identify the basic pharmacodynamic properties of each class of drug, the mechanism of action, and important consequences of using each class of drug; 4) recognize the signs and symptoms of common adverse effects and of possible toxic or life-threatening effects of drugs; 5) identify precautions or contraindications to the use of a drug; 6) identify significant drug-drug interactions; 7) recognize the importance of patient education in determining compliance, avoidance of potential problems, and success of therapy; 8) apply statistical and critical thinking skills to evaluate literature data; 9) use resource materials for determining proper usage of chemotherapeutic agents; and 10) understand the role of the physician assistant in writing prescriptions.

ME560**Advanced Clinical Skills****3.0 Credits**

This lecture and laboratory course is designed to introduce students to essential procedures and skills necessary for primary care practice such as advanced interpretation of EKGs, laboratory studies and radiographs, phlebotomy, injection techniques, splinting, suturing and more. Students will participate in Advanced Cardiac Life Support Certification training during this course. Students demonstrate competence through written and practical evaluations.

ME561 Human Anatomy IV**2.0 Credits**

This course is the fourth in a series of four courses designed to acquire understanding of normal clinical anatomy, through an organ systems-based approach. The systems covered in this course will be renal and male and female genitourinary systems with an emphasis on female physiology. Lectures will be synchronous and include anatomy and physiology content. Lectures will be synchronous and include both anatomy and physiology content. We will use programs that provide the opportunity to explore anatomy in a virtual setting. Laboratory assignments will be completed using Visible Body®, Primal Pictures software and Anatomy Physiology Revealed®. Offered Term III (Spring)

ME563 Basic Sciences IV**2.0 Credits**

This course is the fourth in a series of four courses designed to introduce students to pathophysiology with an organ systems-based approach. Students will integrate anatomic and physiologic principles to develop an understanding of selected diseases with an emphasis on epidemiology, etiology, pathophysiology, and clinical manifestations. This course will explore diseases of Nephrology/GU, Women's Health, Extremes of Age and Hematology.

ME564 Clinical Application Basic Sci III**4.0 Credits**

This course is the third in a series of three courses that provides an in-depth study of topics in human anatomy, physiology, pathology and laboratory medicine. Sessions will emphasize the clinical application of basic science topics as it pertains to the endocrine, gastrointestinal, renal and genitourinary/reproductive systems.

ME565 Clinical Medicine IV**3.0 Credits**

This course is the final in a series of four courses designed to introduce students to the broad scope of clinical medicine through an organ systems-based approach. The Clinical Medicine IV course will specifically cover diseases found in the renal and genitourinary organ systems, as well as drugs used in women's health, pediatrics, geriatrics, hematology, and rheumatology. During this course, for each disease/disorder covered, the student will be given the opportunity to: 1) identify pathophysiological processes; 2) understand biological processes and genetics in relation to pathologic disease; 3) recognize common and atypical presentations of disease; 4) develop a high quality list of differential diagnoses; 5) design an appropriate diagnostic approach; 6) interpret common radiological and laboratory studies needed for evaluation; 7) construct an appropriate treatment plan; and 8) recognize the impact of consulting other healthcare professionals in a patient's management as clinically indicated.

ME567 Patient Assessment IV**3.0 Credits**

This course is the final in a series of four courses designed to introduce students to patient assessment using an organ systems-based approach to history taking and the completion of physical examinations. The Patient Assessment IV course will specifically cover assessment components in the disciplines of nephrology, urology, women's health, pediatrics, geriatrics, hematology, and rheumatology. During this course, the student will be given the opportunity to 1) communicate skillfully with patients using appropriate interviewing and patient education methods; 2) obtain thorough focused and general medical histories; 3) demonstrate proper use of instruments and techniques in the performance of physical examinations; 4) apply knowledge acquired in anatomy, physiology, and other courses to the assessment of patients; 5) detect and analyze abnormal interview and physical exam findings; 6) correlate essential historical data with exam findings; and 7) discuss pertinent available patient resources.

ME568 Clinical Medicine III**5.0 Credits**

This course continues the exploration of clinical medicine and disease processes including evaluation, management, and therapeutics pertaining to eye, ear, nose and throat disorders and diseases of the renal/genitourinary, gastrointestinal, endocrine and reproductive systems.

ME569 Clinical Pharmacology IV**2.0 Credits**

This course is the final in a series of four courses designed to introduce students to the broad scope of clinical pharmacology through an organ systems-based approach. The Clinical Pharmacology IV course will specifically cover therapeutics used to treat conditions found in the renal and genitourinary organ systems, as well as drugs used in women's health, pediatrics, geriatrics, hematology/oncology, and rheumatology. During this course, the student will be given the opportunity to demonstrate the ability to: 1) identify the classes of drugs used to treat diseases commonly encountered in a primary care and emergency settings; 2) recognize the commonly used drugs in each class; 3) identify the basic pharmacodynamic properties of each class of drug, the mechanism of action, and important consequences of using each class of drug; 4) recognize the signs and symptoms of common adverse effects and of possible toxic or life-threatening effects of drugs; 5) identify precautions or contraindications to the use of a drug; 6) identify significant drug-drug interactions; 7) recognize the importance of patient education in determining compliance, avoidance of potential problems, and success of therapy; 8) apply statistical and critical thinking skills to evaluate literature data; 9) use resource materials for determining proper usage of chemotherapeutic agents; and 10) understand the role of the physician assistant in writing prescriptions.

ME573 Clinical Skills 4.0 Credits

This course is designed to prepare the student for supervised clinical practice by introducing procedures commonly performed in the clinical setting. The student will be given the opportunity to demonstrate the ability to: 1) Understand the indications for performing specific clinical procedures; 2) perform the appropriate procedures; 3) counsel the patient regarding both procedures and management; 4) interpret data acquired from procedures in the primary care and relevant subspecialty areas; 5) successfully perform resuscitative procedures under simulated clinical conditions and 6) appreciate the significance of cultural and ethnic factors in patient management. This course is taught using a variety of instruction methods including textbooks, lectures, online videos, class discussion, and small group work.

ME574 Research 1.0 Credit

This is the second of two sequential courses in the track of evidence-based medicine. Building on the knowledge gained from the Evidence-based Medicine course, students will be engaged in critically appraising synthesized evidence such as scoping review, systematic reviews and meta-analyses, and to analyze clinical practice guidelines. They will be given opportunities to complete a project on critically appraised topics and to disseminate this project in a manuscript format and a poster presentation.

ME575 Medical Ethics 1.0 Credit

As stated by William Osler, “the practice of medicine is an art, not a trade; a calling, not a business; a calling in which your heart will be exercised equally with your head”. One must always act by a code of ethics and a duty of service that, in medicine, puts patient care above self-interest. This course is designed to introduce students to the field of medical ethics and allow students to think through common ethical scenarios they may face throughout clinical practice. The Franklin Pierce University PA Program supports the AAPA’s Guidelines for Ethical Conduct for the Physician Assistant Profession <https://www.aapa.org/wp-content/uploads/2017/02/16-EthicalConduct.pdf> and the NCCPA’s Code of Conduct for Certified and Certifying Physician Assistants <https://www.nccpa.net/wp-content/uploads/2020/09/Code-of-Conduct.pdf>. During this course, the student will be given the opportunity to discuss topics covered in each of these publications as well as discuss patient cases in which ethical decision making was required.

ME576 Preparation for Clinical Education 1.0 Credit

This seminar course is designed to prepare students to begin their core clinical experiences. Topics will include communication in the clinical setting, the use of electronic medical records, and an in-depth discussion of program requirements for progressing through the clinical year.

ME580 Clinical Reasoning III 2.0 Credits

The final course in a series of four further develops the student's clinical reasoning skills. Students will demonstrate fundamental patient care which includes effective information gathering, appropriate evaluation, medical decision-making, and implementation of therapeutic management plans. Students will continue to practice interviewing and oral presentation skills.

ME582 Healthcare Rural Med Underserved 2.0 Credits

This course explores healthcare of rural and medically underserved communities/populations and explores related topics of health disparities, social determinants of health, health literacy and education, access, and barriers to healthcare.

ME584 Evidence-Bsd Medicine/ Clncl Pract 1.0 Credit

This course builds upon the knowledge and skills developed in ME532 and ME556 to continually improve the practice of clinical medicine through application of evidenced-based medicine. The course will focus on accessing computer-based medically oriented information, critically analyzing the obtained materials, and applying these findings to clinical scenarios.

ME588 Clinical Pharmacology 2.0 Credits

A review of the principles of pharmacology and discussion of how to apply these principles to patient care situations will be undertaken in preparation for students to enter clinical rotations. Common side effects of prototypic drugs in major categories, drug side effects and drug-drug interactions, the interaction of drugs with the disease state under treatment, polypharmacy, and reputable sources of information about drugs will be explored. Pharmacological management of acute and chronic diseases will be discussed and prescription writing will be reviewed and practiced in concert with the Clinical Reasoning III course.

ME592 Clinical Medicine IV 5.0 Credits

This course is designed to introduce students to conditions commonly encountered in emergency medicine, general surgery, geriatrics, pediatrics and inpatient management. Emphasis will be placed on the general principles of care for injuries, acute and chronic illnesses, basic surgical principles, evaluation and management of the hospitalized, surgical, pediatric and elderly patients.

ME600 Human Anatomy & Physiology I 2.0 Credits

This course is the first in a series of four courses designed to acquire understanding of normal clinical anatomy and physiology, through an organ systems-based approach. This course will start with a comprehensive review of histology and in-depth coverage of the integumentary system. It will additionally examine the normal clinical anatomy and physiology associated with the head/neck region. Lectures will be asynchronous and synchronous and include both anatomy and physiology content. Learning strategies utilized may include lectures, assignments, and group activities. Assessments will include quizzes and high-stakes exam. Programs that provide the opportunity to explore anatomy in a virtual setting will be utilized. Laboratory assignments may be completed using Primal Pictures software and Anatomy Physiology Revealed®.

ME603 Basic Sciences I 2.0 Credits

This course is the first in a series of four courses designed to introduce students to the broad scope of pathophysiology, genetics, and microbiology through an organ systems-based approach. Students will learn genetics, pathophysiology, microbiology, and other molecular components as they relate to the integumentary and head/neck systems. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and a high stakes examination.

ME605 Patient Assessment I 1.0 Credit

This course is the first in a series of four courses designed to introduce students to patient assessment using an organ systems-based approach to history taking and the completion of physical examinations. The Patient Assessment I course will specifically cover general principles of history taking and physical examinations, vital signs, as well as assessment components in the disciplines of dermatology, ophthalmology, and otorhinolaryngology (ear, nose, and throat). Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, physical exam practical's, and/or a high stakes examination. Immersion weeks will include practice for the above and practical exams (OSCEs).

ME607 Clinical Pharmacology I 1.0 Credit

This course is the first in a series of four courses designed to introduce students to the broad scope of clinical pharmacology through an organ systems-based approach. The Clinical Pharmacology I course will specifically cover the basic principles of pharmacology, principles of anti-infective agents, and dietary supplements and herbal medications, as well as cover therapeutics used to treat conditions found in the dermatological, ophthalmological, and otorhinolaryngological (ENT) organ systems. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and a high stakes examination.

ME609 Clinical Dermatology 2.0 Credits

This course presents the most common dermatologic conditions encountered in practice and on necessary licensing exams. During this course, for each emergent, acute, and chronic disease/disorder covered, the student will be given the opportunity to learn how to manage patients across all age groups. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and a high stakes examination.

ME611 Clinical EENT 2.0 Credits

This course presents the most common otolaryngologic, nasal, and ophthalmologic conditions encountered in practice and on necessary licensing exams. During this course, for each emergent, acute, and chronic disease/disorder covered, the student will be given the opportunity to learn how to manage patients across all age groups. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and a high stakes examination.

ME613 Mindfulness in Medicine 1.0 Credit

This course explores the inner workings of conscious and subconscious awareness through the applied intention of mindfulness. In this course, students will learn that personal wellness helps to prevent impairment and burnout. Learning strategies utilized may include lectures and group and individual activities. Assessments utilized may include written and verbal assignments.

ME615 Evidence Based Medicine-Res Methods 1.0 Credit

This course is designed to help students navigate the medical literature to find answers to clinical questions that are based on valid medical research evidence, referred to as evidence-based medicine (EBM). Understanding of research methods is essential for an effective practice of EBM as future clinicians. Learning strategies utilized may include lectures and group activities. Assessments utilized may include verbal formats, assignments, written quizzes, and a high stakes examination.

ME617 Preventive Medicine 1.0 Credit

This course introduces students to the discipline of health promotion and preventive medicine. This course will give students the evidence-based knowledge and tools necessary to impart meaningful changes in their patients' lives. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and a high stakes examination.

- ME619 Elective Clinical Experience 4.0 Credits**
This four-week rotation in a clinical setting of the student's choice is designed to allow students the opportunity to explore a specialty that is not available or offered in the core six-week rotations or in a practice setting where they may be seeking employment after graduation.
- ME621 Introduction to Health Professions 1.0 Credit**
This course introduces students to the history of the Physician Assistant profession and includes topics around practice, public health, and policy. In addition, the course introduces interprofessional team approaches to patient care. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and a high stakes examination.
- ME623 Diagnostic Methods I 1.0 Credit**
This course is the first in a series of three courses designed to introduce students to the different diagnostic methods available for the evaluation and diagnosis of medical conditions. The Diagnostic Methods I course will specifically cover general laboratory tests encountered in primary care as well as an introduction to the different imaging modalities, such as plain radiography (X-ray), ultrasonography (US), computed tomography (CT), and magnetic resonance imaging (MRI). Learning strategies utilized may include lectures and group activities. Assessments utilized include assignments, written quizzes, and a high stakes examination.
- ME625 Human Anatomy & Physiology II 2.0 Credits**
This course is the second in a series of four courses designed to acquire understanding of normal clinical anatomy and physiology, through an organ systems-based approach. This course will examine the normal clinical anatomy and physiology associated with the heart, lungs, and abdomen. Lectures will be asynchronous and synchronous and include both anatomy and physiology content. Learning strategies utilized may include lectures, assignments, and group activities. Assessments may include assignments, quizzes, and written examinations.
- ME627 Basic Sciences II 2.0 Credits**
This course is the second in a series of four courses designed to introduce students to the broad scope of pathophysiology, genetics, and microbiology through an organ systems-based approach. Students will learn genetics, pathophysiology, microbiology, and other molecular components as they relate to cardiovascular, pulmonary, and gastrointestinal systems. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and examinations.
- ME629 Patient Assessment II 1.0 Credit**
This course is the second in a series of four courses designed to introduce students to patient assessment using an organ systems-based approach to history taking and the completion of physical examinations. The Patient Assessment II course will specifically cover general principles of assessment components of the cardiovascular, pulmonary, and gastrointestinal systems. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, physical exam practical's, and/or written examination. Immersion weeks will include practice for the above and practical exams (OSCEs).
- ME631 Clinical Rotation I 5.0 Credits**
These practical experiences are designed to provide students with supervised medical and surgical clinical practice enabling them to acquire the competencies needed for PA practice. Core rotations will include Family Medicine, Internal Medicine, Pediatrics, Women's Health, Emergency Medicine, Surgery, Psychiatry, and an additional primary care elective.
- ME632 Clinical Rotation II 5.0 Credits**
These practical experiences are designed to provide students with supervised medical and surgical clinical practice enabling them to acquire the competencies needed for PA practice. Core rotations will include Family Medicine, Internal Medicine, Pediatrics, Women's Health, Emergency Medicine, Surgery, Psychiatry, and an additional primary care elective.
- ME633 Clinical Rotation III 5.0 Credits**
These practical experiences are designed to provide students with supervised medical and surgical clinical practice enabling them to acquire the competencies needed for PA practice. Core rotations will include Family Medicine, Internal Medicine, Pediatrics, Women's Health, Emergency Medicine, Surgery, Psychiatry, and an additional primary care elective.
- ME634 Clinical Rotation IV 5.0 Credits**
These practical experiences are designed to provide students with supervised medical and surgical clinical practice enabling them to acquire the competencies needed for PA practice. Core rotations will include Family Medicine, Internal Medicine, Pediatrics, Women's Health, Emergency Medicine, Surgery, Psychiatry, and an additional primary care elective.

ME635 Clinical Rotation V 5.0 Credits

These practical experiences are designed to provide students with supervised medical and surgical clinical practice enabling them to acquire the competencies needed for PA practice. Core rotations will include Family Medicine, Internal Medicine, Pediatrics, Women's Health, Emergency Medicine, Surgery, Psychiatry, and an additional primary care elective.

ME636 Clinical Rotation VI 5.0 Credits

These practical experiences are designed to provide students with supervised medical and surgical clinical practice enabling them to acquire the competencies needed for PA practice. Core rotations will include Family Medicine, Internal Medicine, Pediatrics, Women's Health, Emergency Medicine, Surgery, Psychiatry, and an additional primary care elective.

ME637 Clinical Rotation VII 5.0 Credits

These practical experiences are designed to provide students with supervised medical and surgical clinical practice enabling them to acquire the competencies needed for PA practice. Core rotations will include Family Medicine, Internal Medicine, Pediatrics, Women's Health, Emergency Medicine, Surgery, Psychiatry, and an additional primary care elective.

ME638 Clinical Rotation VIII 5.0 Credits

These practical experiences are designed to provide students with supervised medical and surgical clinical practice enabling them to acquire the competencies needed for PA practice. Core rotations will include Family Medicine, Internal Medicine, Pediatrics, Women's Health, Emergency Medicine, Surgery, Psychiatry, and an additional primary care elective.

ME641 Clinical Pharmacology II 1.0 Credit

This course is the second in a series of four courses designed to introduce students to the broad scope of clinical pharmacology through an organ systems-based approach. The Clinical Pharmacology II course will specifically cover the most common therapeutics used to treat conditions found in the cardiovascular, pulmonary, and gastrointestinal organ systems. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and examinations.

ME643 Clinical Cardiology 4.0 Credits

This course presents the most common cardiovascular conditions encountered in practice and on necessary licensing exams. During this course, for each emergent, acute, and chronic disease/disorder covered, the student will be given the opportunity to learn how to manage patients across all age groups. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and written examinations.

ME645 Seminar I 2.0 Credits

These two-week Seminar courses will enhance students' clinical rotations through discussion and evaluation of their experiences in the health care system. In week one students return to campus for case presentations and preparation for a community service project which will be carried out during the second week of the course. Selected lectures will also be delivered at this time.

ME646 Seminar II 2.0 Credits

These two-week Seminar courses will enhance students' clinical rotations through discussion and evaluation of their experiences in the health care system. In week one students return to campus for case presentations and preparation for a community service project which will be carried out during the second week of the course. Selected lectures will also be delivered at this time.

ME647 Seminar III 2.0 Credits

These two-week Seminar courses will enhance students' clinical rotations through discussion and evaluation of their experiences in the health care system. In week one students return to campus for case presentations and preparation for a community service project which will be carried out during the second week of the course. Selected lectures will also be delivered at this time.

ME648 Seminar IV 2.0 Credits

This two-week Seminar course is designed to bring students back to campus at the conclusion of their clinical year for continued reflection and discussion of their experiences, lectures in clinical medicine, and presentations. Students will undergo a written and practical summative evaluation designed to assess their mastery of the Competencies for the Physician Assistant profession prior to the final term.

ME649 Clinical Pulmonology 3.0 Credits

This course presents the most common pulmonary conditions encountered in practice and on necessary licensing exams. During this course, for each emergent, acute, and chronic disease/disorder covered, the student will be given the opportunity to learn how to manage

patients across all age groups. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and written examinations.

ME650 Internal Medicine

5.0 Credits

In the supervised clinical practice experience (SCPE) setting, the student will apply the fundamental medical knowledge developed during the didactic year. The Internal Medicine SCPE will advance the students' clinical skills in the primary and specialty care areas of medicine. In this five-week clinical course/ rotation, the student will have the opportunity to (1) build and increase the ability to develop critical thinking and problem-solving skills while seeing patients within the outpatient and/ or inpatient setting, (2) assess commonly encountered medical problems, (3) order and interpret appropriate diagnostic studies, (4) manage common medical problems in patients, (5) practicing medicine as part of a health care team, and (6) observe, assist, or perform common internal medicine procedures under the supervision of a clinical preceptor. Patient-centered, physician assistant practice reflects a number of overarching themes including an unwavering commitment to patient safety, cultural competence, quality health care, lifelong learning, and professional growth. This course may include extended clinical care hours, inpatient services, emergency department, hospital call, and community responsibilities as deemed appropriate by the supervising preceptor.

ME651 Family Medicine

5.0 Credits

This course is designed to allow students to use knowledge, skills, and abilities gained throughout the didactic year to interact with, evaluate, diagnose, and treat primary care patients under appropriate supervision. During this five-week course, students will be given the opportunity to: 1) Apply a fund of knowledge in basic and clinical sciences to the understanding of common diseases encountered in family medicine; 2) effectively interact and communicate with patients to obtain a thorough history and conduct pertinent physical examinations; 3) use critical thinking to generate high-quality differential diagnoses; 4) formulate, justify, and carry out appropriate diagnostic and management plans based on current medical evidence; 5) successfully practice common procedures encountered in primary care settings; 6) Organize and present information and medical decision making to other members of the healthcare team through oral presentation and construction of clinical notes; 7) provide high-yield education to patients and their families; and 8) showcase professionalism and respect for patients, their families, other students, and all members of the healthcare team throughout the clerkship. This course may include extended clinical care hours, inpatient services, emergency department, hospital call, and community responsibilities as deemed appropriate by the supervising preceptor.

ME652 Emergency Medicine

5.0 Credits

This five-week course is designed to allow students to use knowledge, skills, and abilities gained throughout the didactic year to interact with, evaluate, diagnose, and treat emergency patients under appropriate supervision. During this course, students will be given the opportunity to: 1) prepare and present patient records and a problem list in an organized fashion appropriate for the emergency medicine service; 2) understand the indications, contraindications, possible complications, and limitations in the management of emergent conditions; 3) understand the indications and limitations of various emergency procedures; 4) assist effectively with emergency procedures in the emergency room setting; 5) manage and document patient information in the emergency room setting; 6) assist in all particulars delegated by the supervising practitioner; 7) apply previously-acquired problem-solving skills in the management of patients; 8) apply principles of evidence-based medicine; 9) create a diagnosis sheet that the student and peers may use to study for end of block examinations; and 10) make written and oral presentations on selected patient conditions; 11) organize and present information and medical decision making to other members of the healthcare team through oral presentation and construction of clinical notes; 12) provide high-yield education to patients and their families; and 13) showcase professionalism and respect for patients, their families, other students, and all members of the healthcare team throughout the clerkship. This course may include extended clinical care hours, inpatient services, emergency department, hospital call, and community responsibilities as deemed appropriate by the supervising preceptor.

ME653 Surgery

5.0 Credits

This five-week course is designed to allow students to use knowledge, skills, and abilities gained throughout the didactic year to interact with, evaluate, diagnose, and treat surgery patients under appropriate supervision. During this course, students will be given the opportunity to: 1) prepare and present patient records and a problem list in an organized fashion appropriate for the surgical service; 2) understand the indications, contraindications, possible complications, and limitations in the management of surgical conditions; 3) understand the indications and limitations of various surgical procedures; 4) assist effectively with surgical procedures in the intraoperative setting and patient and information management in the pre- and post-operative periods; 5) assist in all particulars delegated by the supervising practitioner; 6) apply previously-acquired problem-solving skills in the management of patients; 7) apply principles of evidence-based medicine; 8) create a diagnosis sheet that the student and peers may use to study for end of block examinations; 9) make written and oral presentations on selected patient conditions; 10) organize and present information and medical decision making to other members of the healthcare team through oral presentation and construction of clinical notes; 11) provide high-yield education to patients and their families; and 12) showcase professionalism and respect for patients, their families, other students, and all members of the healthcare team throughout the clerkship. This course may include extended clinical care hours, inpatient services, emergency department, hospital call, and community responsibilities as deemed appropriate by the supervising preceptor.

ME654**Pediatrics****5.0 Credits**

The Pediatrics supervised clinical practice experience (SCPE) allow for the students' application of history taking, physical examination, diagnosis, and management of patients in the pediatric population. During this five-week course the student will be given the opportunity to: (1) perform well child exams, (2) perform pediatric problem-oriented exams, (3) evaluate common pediatric illnesses, and (4) evaluate the care of the newborn. Emphasis will also be placed on patient and family education on treatment and preventative measures for common pediatric conditions. This course may include extended clinical care hours, inpatient services, emergency department, hospital call, and community responsibilities as deemed appropriate by the supervising preceptor. This course may include extended clinical care hours, inpatient services, emergency department, hospital call, and community responsibilities as deemed appropriate by the supervising preceptor.

ME655**Women's Health****5.0 Credits**

This course is designed to allow students to use knowledge, skills, and abilities gained throughout the didactic year to interact with, evaluate, diagnose, and treat women's health patients under appropriate supervision. During this five-week course, students will be given the opportunity to: 1) Apply a fund of knowledge in basic and clinical sciences to the understanding of common diseases encountered in women's health; 2) effectively interact and communicate with patients to obtain a thorough history and conduct pertinent physical examinations; 3) use critical thinking to generate high-quality differential diagnoses; 4) formulate, justify, and carry out appropriate diagnostic and management plans based on current medical evidence; 5) successfully practice common procedures encountered in women's health; 6) understand key components of pre-operative, intra-operative, and post-operative care of surgical conditions encountered in women's health; 7) Organize and present information and medical decision making to other members of the healthcare team through oral presentation and construction of clinical notes; 8) provide high-yield education to patients and their families; and 9) showcase professionalism and respect for patients, their families, other students, and all members of the healthcare team throughout the clerkship. This course may include extended clinical care hours, inpatient services, emergency department, hospital call, and community responsibilities as deemed appropriate by the supervising preceptor.

ME656**Behavioral Medicine/ Psychiatry****5.0 Credits**

The Behavioral Medicine (Psychiatry) supervised clinical practice experience (SCPE) allow for the students' application of history taking, physical examination, diagnosis, and management of patients with behavioral health and/or psychiatric conditions. During this five-week course the student will be given the opportunity to: (1) perform basic psychiatric evaluations, (2) monitor medications, and (3) support the clinical management plan for patients following psychiatric evaluation and treatment. This course may include extended clinical care hours, inpatient services, emergency department, hospital call, and community responsibilities as deemed appropriate by the supervising preceptor.

ME657**Elective Rotations I****5.0 Credits**

Each five-week course/rotation for Electives I and II provide students with supervised clinical practice experiences chosen from medical/surgical specialties and/or subspecialties. In each of these elective course/rotations the student will be given the opportunity to: (1) gain clinical skills specific to the specialty of the rotation, (2) recognize conditions treatable by the specialty so appropriate referrals can be made, (3) continue to develop skills in systematic medical problem-solving and patient management, (4) continue to establish or reinforce patterns of independent learning, self-evaluation, professional behavior, and communication skills.

ME658**Elective Rotations II****5.0 Credits**

Each five-week course/rotation for Electives I and II provide students with supervised clinical practice experiences chosen from medical/surgical specialties and/or subspecialties. In each of these elective course/rotations the student will be given the opportunity to: (1) gain clinical skills specific to the specialty of the rotation, (2) recognize conditions treatable by the specialty so appropriate referrals can be made, (3) continue to develop skills in systematic medical problem-solving and patient management, (4) continue to establish or reinforce patterns of independent learning, self-evaluation, professional behavior, and communication skills.

ME659**Elective Rotations III****5.0 Credits**

Each five-week course/rotation for Electives I and II provide students with supervised clinical practice experiences chosen from medical/surgical specialties and/or subspecialties. In each of these elective course/rotations the student will be given the opportunity to: (1) gain clinical skills specific to the specialty of the rotation, (2) recognize conditions treatable by the specialty so appropriate referrals can be made, (3) continue to develop skills in systematic medical problem-solving and patient management, (4) continue to establish or reinforce patterns of independent learning, self-evaluation, professional behavior, and communication skills.

ME661**Clinical Gastroenterology****3.0 Credits**

This course presents the most common gastroenterological conditions encountered in practice and on necessary licensing exams. During this course, for each emergent, acute, and chronic disease/disorder covered, the student will be given the opportunity to learn how to

manage patients across all age groups. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and written examinations.

ME663 Diagnostic Methods II 1.0 Credit

This course is the second in a series of three courses designed to introduce students to the different diagnostic methods available for the evaluation and diagnosis of medical conditions. This course will specifically cover heart, lung, and abdominal testing, such as EKG, Echocardiograms, PFTs, FOBT, and colonoscopies as they relate to diagnosing patients. Learning strategies utilized may include lectures and group activities. Assessments utilized include assignments, written quizzes, and examinations.

ME665 Clinical Psych & Behavioral Health 1.0 Credit

This course presents the most common psychiatric conditions encountered in practice and on necessary licensing exams. During this course, for each emergent, acute, and chronic disease/disorder covered, the student will be given the opportunity to learn how to manage patients across all age groups. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and written examinations.

ME667 Clinical Skills 1.0 Credit

This course covers the indications, contraindications, step-by-step instruction, and the potential complications of multiple invasive and non-invasive procedures commonly performed by physician assistants in clinical practice. In addition, as part of this course, students must provide documentation in certification of American Heart Association Basic and Advanced Cardiac Life Support. Learning strategies may include lectures, labs, case studies, small groups, self-directed study, and individual activities. Assessments utilized may include assignments, manual skills checkoffs, written quizzes, and written examinations.

ME669 Human Anatomy & Physiology III 2.0 Credits

This course is the third in a series of four courses designed to acquire understanding of normal clinical anatomy and physiology, through an organ systems-based approach. This course will examine the normal clinical anatomy and physiology associated with the endocrine, musculoskeletal, and neurological systems. Lectures will be asynchronous and synchronous and include both anatomy and physiology content. Learning strategies utilized may include lectures, assignments, and group activities. Assessments may include assignments, quizzes, and written examinations.

ME671 Basic Sciences III 2.0 Credits

This course is the third in a series of four courses designed to introduce students to the broad scope of pathophysiology, genetics, and microbiology through an organ systems-based approach. Students will learn genetics, pathophysiology, microbiology, and other molecular components as they relate to the endocrine, musculoskeletal, and neurological systems. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and examinations.

ME673 Patient Assessment III 1.0 Credit

This course is the third in a series of four courses designed to introduce students to patient assessment using an organ systems-based approach to history taking and the completion of physical examinations. This course will specifically cover general principles of history taking and physical examinations in the disciplines of the endocrine, musculoskeletal, and neurological systems. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, physical exam practicals, and/or written examination. Immersion weeks will include practice for the above and practical exams (OSCEs).

ME675 Clinical Pharmacology III 1.0 Credit

This course is the third in a series of four courses designed to introduce students to the broad scope of clinical pharmacology through an organ systems-based approach. The Clinical Pharmacology III course will specifically cover the most common therapeutics used to treat conditions found in the musculoskeletal/rheumatological, neurological, and endocrine systems. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and examinations.

ME677 Clini Musculoskeletal/ Rheumatology 3.0 Credits

This course presents the most common musculoskeletal and rheumatologic conditions encountered in practice and on necessary licensing exams. During this course, for each emergent, acute, and chronic disease/disorder covered, the student will be given the opportunity to learn how to manage patients across all age groups. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and written examinations.

ME679 Clinical Neurology 2.0 Credits

This course presents the most common neurological conditions encountered in practice and on necessary licensing exams. During this course, for each emergent, acute, and chronic disease/disorder covered, the student will be given the opportunity to learn how to manage patients across all age groups. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and written examinations.

ME681 Clinical Endocrinology 2.0 Credits

This course presents the most common endocrine conditions encountered in practice and on necessary licensing exams. During this course, for each emergent, acute, and chronic disease/disorder covered, the student will be given the opportunity to learn how to manage patients across all age groups. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and written examinations.

ME683 Clinical Infectious Disease/Em Med 1.0 Credit

This course presents the most common infectious and emergent conditions encountered in practice and on necessary licensing exams. During this course, for each emergent, acute, and chronic disease/disorder covered, the student will be given the opportunity to learn how to manage patients across all age groups. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and written examinations.

ME685 Diagnostic Methods III 1.0 Credit

This course is the third in a series of three courses designed to introduce students to the different diagnostic methods available for the evaluation and diagnosis of medical conditions. This course will specifically cover neurological, musculoskeletal, endocrine, gynecological, renal, and genitourinary testing as it relates to diagnosing patients. Learning strategies utilized may include lectures and group activities. Assessments utilized include assignments, written quizzes, and examinations.

ME687 Cross Cultural Health 1.0 Credit

This course aims to create compassionate physician assistants who can critically assess their own bias and consider the perspectives of patients from all diverse backgrounds. Students will be better prepared to provide medical care to patients with consideration for disability, ethnicity, gender identity, religion, sexual orientation, and social determinants of health. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and written examination.

ME690 Senior Seminar 6.0 Credits

A review of history and physical examination skills and a thorough review of current medical topics will be undertaken to prepare students for the Physician Assistant National Certification Examination (PANCE).

ME692 Preparation for Clinical Practice 2.0 Credits

In order to assist students with the transition of becoming a clinically practicing physician assistant, this course will provide information on how to obtain certification, licensure, malpractice insurance, and many other essential topics related to practicing medicine as a physician assistant.

ME693 Professional Practice I 1.0 Credit

This course is part one of a 4-part course series during the students' clinical year. During this course, the student will be given the opportunity to: 1) Exhibit their clinical skills and review didactic knowledge gained throughout the curriculum; 2) Prepare for clinical practice by developing an understanding of billing and coding, reimbursement, and professionalism issues; and 3) Prepare for the physician assistant national certification exam (PANCE) by early study of board review questions.

ME694 Professional Practice II 1.0 Credit

This course is part two of a 4-part course series during the students' clinical year. During this course, the student will be given the opportunity to: 1) Exhibit their clinical skills and review didactic knowledge gained throughout the curriculum; 2) Understand the importance of ethical behavior within a healthcare team; and 3) Prepare for the physician assistant national certification exam (PANCE) by early study of board review questions.

ME695 Professional Practice III 1.0 Credit

This course is part three of a 4-part course series during the students' clinical year. During this course, the student will be given the opportunity to: 1) Exhibit their clinical skills and review didactic knowledge gained throughout the curriculum; 2) Understand the importance of interprofessional practice within a healthcare team; and 3) Prepare for the physician assistant national certification exam (PANCE) by early study of board review questions.

ME696 Professional Practice IV 1.0 Credit

This course is part four of a 4-part course series during the students' clinical year. During this course, the student will be given the opportunity to: 1) exhibit their clinical skills and review didactic knowledge gained throughout the curriculum through summative assessments; 2) recognize the importance of the physician assistant national certification exam (PANCE), state licensure maintenance, and continuing medical education (CME) requirements; 3) prepare for successful completion of the national certification examination through assignments, self-learning, and board review questions; and 4) prepare for employment.

ME701 Human Anatomy & Physiology IV 2.0 Credits

This course is the last in a series of four courses designed to acquire understanding of normal clinical anatomy and physiology, through an organ systems-based approach. This course will examine the normal clinical anatomy and physiology associated with the genitourinary and reproductive systems. Lectures will be asynchronous and synchronous and include both anatomy and physiology content. Learning strategies utilized may include lectures, assignments, and group activities. Assessments may include assignments, quizzes, and written examinations.

ME703 Basic Sciences IV 2.0 Credits

This course is the last in a series of four courses designed to introduce students to the broad scope of pathophysiology, genetics, and microbiology through an organ systems-based approach. Students will learn genetics, pathophysiology, microbiology, and other molecular components as they relate to the genitourinary and reproductive systems. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and examinations.

ME705 Patient Assessment IV 1.0 Credit

This course is the last in a series of four courses designed to introduce students to patient assessment using an organ systems-based approach to history taking and the completion of physical examinations. The Patient Assessment IV course will specifically cover general principles of assessment components of the genitourinary and reproductive systems. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, physical exam practical's, and/or written examination. Immersion weeks will include practice for the above and practical exams (OSCEs).

ME707 Clinical Pharmacology IV 1.0 Credit

This course is the last in a series of four courses designed to introduce students to the broad scope of clinical pharmacology through an organ systems-based approach. The Clinical Pharmacology IV course will specifically cover the most common therapeutics used to treat conditions found in the renal/genitourinary, gynecology, and hematology systems. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and examinations.

ME709 Clinical Renal and Genitourinary 3.0 Credits

This course presents the most common renal and genitourinary conditions encountered in practice and on necessary licensing exams. During this course, for each emergent, acute, and chronic disease/disorder covered, the student will be given the opportunity to learn how to manage patients across all age groups. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and written examinations.

ME711 Clinical Pediatrics 2.0 Credits

This course presents the most common pediatric conditions encountered in practice and on necessary licensing exams. During this course, for each emergent, acute, and chronic disease/disorder covered, the student will be given the opportunity to learn how to manage patients across all age groups. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and written examinations.

ME713 Clinical Hematology 1.0 Credit

This course presents the most common hematological conditions encountered in practice and on necessary licensing exams. During this course, for each emergent, acute, and chronic disease/disorder covered, the student will be given the opportunity to learn how to manage patients across all age groups. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and written examinations.

ME715 Clinical Women's Health 2.0 Credits

This course presents the most common women's health conditions encountered in practice and on necessary licensing exams. During this course, for each emergent, acute, and chronic disease/disorder covered, the student will be given the opportunity to learn how to manage patients across all age groups. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and written examinations.

ME717 Clinical Surgery**2.0 Credits**

This course presents the most common surgical conditions encountered in practice and on necessary licensing exams. During this course, for each emergent, acute, and chronic disease/disorder covered, the student will be given the opportunity to learn how to manage patients across all age groups. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and written examinations.

ME719 Medical Ethics**1.0 Credit**

This course is designed to introduce students to the field of medical ethics and allow students to think through common ethical scenarios they may face throughout clinical practice. During this course, the student will be given the opportunity to discuss various topics and patient cases in which ethical decision making is required. Learning strategies utilized may include lectures and group activities. Assessments utilized may include assignments, written quizzes, and written examination.

ME721 SCPE Internal Medicine**5.0 Credits**

The Internal Medicine supervised clinical practice experience (SCPE) is designed to allow students to apply the fundamental knowledge, skills, and abilities developed during the didactic year in the internal medicine environment. Students will practice clinical skills in primary and specialty areas of medicine. The 5-week clinical course/ rotation will provide students the opportunity to 1) build and increase the ability to develop critical thinking and problem-solving skills while seeing patients within the outpatient and/ or inpatient setting, 2) assess commonly encountered medical problems, 3) order and interpret appropriate diagnostic studies, 4) manage common medical problems in patients, 5) practice medicine as part of a health care team, and 6) observe, assist, or perform common internal medicine procedures under the supervision of a clinical preceptor. Patient-centered, physician assistant practice reflects several overarching themes including an unwavering commitment to patient safety, cultural competence, quality health care, lifelong learning, and professional growth. Course delivery methods for teaching and learning include hands-on clinical experiences and preceptor/clinician observations.

ME723 SCPE Family Medicine**5.0 Credits**

The Family Medicine supervised clinical practice experience (SCPE) is course is designed to allow students to use knowledge, skills, and abilities gained throughout the didactic year to interact with, evaluate, diagnose, and treat primary care patients under appropriate supervision. During this 5-week course, students will be given the opportunity to: 1) Apply a fund of knowledge in basic and clinical sciences to the understanding of common diseases encountered in family medicine; 2) effectively interact and communicate with patients to obtain a thorough history and conduct pertinent physical examinations; 3) use critical thinking to generate high-quality differential diagnoses; 4) formulate, justify, and carry out appropriate diagnostic and management plans based on current medical evidence; 5) successfully practice common procedures encountered in primary care settings; 6) Organize and present information and medical decision making to other members of the healthcare team through oral presentation and construction of clinical notes; 7) provide high-yield education to patients and their families; and 8) showcase professionalism and respect for patients, their families, other students, and all members of the healthcare team throughout the clerkship. Course delivery methods for teaching and learning include hands-on clinical experiences and preceptor/clinician observations.

ME725 SCPE Emergency Medicine**5.0 Credits**

The Emergency Medicine supervised clinical practice experience (SCPE) is designed to allow students to use knowledge, skills, and abilities ?gained throughout the didactic year to?interact with,?evaluate, diagnose, and treat patients in the emergency room under appropriate supervision. During the 5-week course, the student will be given the opportunity to 1) Apply a fund of knowledge in basic and clinical sciences to the understanding of common conditions encountered in the emergency care setting; 2) effectively interact and communicate with patients to obtain a thorough history and conduct pertinent physical examinations; 3) use critical thinking to generate high-quality differential diagnoses; 4) formulate, justify, and carry out appropriate diagnostic and management plans based on current medical evidence; 5) understand the indications, possible complications, and limitations of various emergency procedures; 6) observe, assist, or perform emergency care procedures under the supervision of a clinical preceptor; 7) Organize and present information and medical decision making to other members of the healthcare team through oral presentation and construction of clinical notes;?8) provide?high-yield education to patients and their families;?and?9)?showcase professionalism?and respect?for?patients, their families, other students, and all?members of the healthcare team?throughout the clerkship. Course delivery methods for teaching and learning include hands-on clinical experiences and preceptor/clinician observations.

ME727 SCPE Surgery**5.0 Credits**

The Surgery supervised clinical practice experience (SCPE) is designed to allow students to apply the fundamental knowledge, skills, and abilities developed during the didactic year in surgical environment. During this 5-week course the student will be given the opportunity to: 1) prepare and present patient findings and to develop differential diagnoses appropriate for the surgical service; 2) understand the indications, contraindications, possible complications, and limitations in the management of surgical conditions; 3) observe, assist or perform surgical procedures in the intraoperative setting under the supervision and guidance of the clinical preceptor; 4) identify possible contraindications and risks to surgery in the pre-operative setting; 5) identify possible risks of complications to surgery in the post-operative setting; 6) apply previously-acquired problem-solving skills in the management of patients; 7) apply principles of

evidence-based medicine in the diagnosis and treatment of surgical conditions; 8) Provide written and oral presentations including SOAP note, comprehensive write-up, and/or post-operative note 9) provide high-yield education and counseling to patients and their families under the guidance of a clinical preceptor; and 10) showcase professionalism and respect for patients, their families, peers, and all members of the healthcare team throughout the clerkship. Course delivery methods for teaching and learning include hands-on clinical experiences and preceptor/clinician observations.

ME729 SCPE Pediatrics

5.0 Credits

The Pediatrics supervised clinical practice experience (SCPE) is designed to allow students to apply the fundamental knowledge, skills, and abilities developed during the didactic year in the pediatric environment. Students will apply history taking, physical examination, diagnosis, and management of patients in the pediatric population. During this 5-week course the student will be given the opportunity to: 1) perform well child exams, 2) perform pediatric problem-oriented exams, 3) evaluate common pediatric illnesses, and 4) evaluate the care of the newborn. Emphasis will also be placed on patient and family education on treatment and preventative measures for common pediatric conditions. Course delivery methods for teaching and learning include hands-on clinical experiences and preceptor/clinician observations.

ME731 SCPE Women's Health

5.0 Credits

The Women's Health supervised clinical practice experience (SCPE) is designed to allow students to apply the fundamental knowledge, skills, and abilities developed during the didactic year in the clinical environment. During this 5-week course the student will be given the opportunity to: 1) Apply a fund of knowledge in basic and clinical sciences to the understanding of common diseases encountered in women's health; 2) effectively interact and communicate with patients to obtain a thorough history and conduct pertinent physical examinations; 3) use critical thinking to generate high-quality differential diagnoses; 4) formulate, justify, and carry out appropriate diagnostic and management plans based on current medical evidence; 5) successfully practice common procedures encountered in women's health; 6) Organize and present information and medical decision making to other members of the healthcare team through oral presentation and construction of clinical notes; 7) provide high-yield education to patients and their families; and 8) showcase professionalism and respect for patients, their families, other students, and all members of the healthcare team throughout the clerkship. Course delivery methods for teaching and learning include hands-on clinical experiences and preceptor/clinician observations.

ME733 SCPE Behavioral Med (Psychiatry)

5.0 Credits

The Behavioral Medicine (Psychiatry) supervised clinical practice experience (SCPE) allow for the students' application of history taking, physical examination, diagnosis, and management of patients with behavioral health and/or psychiatric conditions under appropriate supervision. During this 5-week course the student will be given the opportunity to: 1) perform basic psychiatric evaluations, 2) monitor medications, and 3) support the clinical management plan for patients following psychiatric evaluation and treatment. Course delivery methods for teaching and learning include hands-on clinical experiences and preceptor/clinician observations.

ME735 SCPE Elective I

5.0 Credits

In the supervised clinical practice experience (SCPE) setting, the student will apply the fundamental knowledge, skills, and abilities developed during the didactic year. The Elective I SCPE will advance the students' clinical skills by providing additional experience outside of the required SCPEs. Assignments will vary depending on the elected specialty. Course delivery methods for teaching and learning include hands-on clinical experiences and preceptor/clinician observations.

ME737 SCPE Elective II

5.0 Credits

In the supervised clinical practice experience (SCPE) setting, the student will apply the fundamental knowledge, skills, and abilities developed during the didactic year. The Elective II SCPE will advance the students' clinical skills by providing additional experience outside of the required SCPEs. Assignments will vary depending on the elected specialty. Course delivery methods for teaching and learning include hands-on clinical experiences and preceptor/clinician observations.

ME739 Professional Practice I

1.0 Credit

This course is part one of a 4-part course series. During this course, the student will be given the opportunity to: 1) Exhibit their clinical skills and review didactic knowledge gained throughout the curriculum; 2) Prepare for clinical practice by developing an understanding of billing and coding, reimbursement, and professionalism issues; and 3) Prepare for the physician assistant national certification exam (PANCE) by early study of board review questions. Course delivery methods for teaching and learning include guided discussion forums, presentations, and a variety of active learning activities in an online environment.

ME741 Professional Practice II

1.0 Credit

This course is part two of a 4-part course series. During this course, the student will be given the opportunity to: 1) Exhibit their clinical skills and review didactic knowledge gained throughout the curriculum; 2) Understand the importance of ethical behavior within a healthcare team; and 3) Prepare for the physician assistant national certification exam (PANCE) by early study of board review questions.

Course delivery methods for teaching and learning include guided discussion forums, presentations, and a variety of active learning activities in an online environment.

ME743 Professional Practice III 1.0 Credit

This course is part three of a 4-part course series. During this course, the student will be given the opportunity to: 1) Exhibit their clinical skills and review didactic knowledge gained throughout the curriculum; 2) Understand the importance of interprofessional practice within a healthcare team; and 3) Prepare for the physician assistant national certification exam (PANCE) by early study of board review questions. Course delivery methods for teaching and learning include guided discussion forums, presentations, and a variety of active learning activities in an online environment.

ME745 Professional Practice IV 1.0 Credit

This course is part four of a 4-part course series. During this course, the student will be given the opportunity to: 1) exhibit their clinical skills and review didactic knowledge gained throughout the curriculum through summative assessments; 2) recognize the importance of the physician assistant national certification exam (PANCE), state licensure maintenance, and continuing medical education (CME) requirements; 3) prepare for successful completion of the national certification examination through assignments, self-learning, and board review questions; and 4) prepare for employment. Course delivery methods for teaching and learning include guided discussion forums, presentations, and a variety of active learning activities in an online environment.

NR501 RN/MSM Bridge Course 3.0 Credits

This graduate level course is designed for the registered nurse with a baccalaureate degree in a discipline other than nursing and an associate's degree or diploma in nursing. The course will facilitate a bridge of understanding and knowledge development between the currently held nursing degree and the MSN by presenting concepts such as evidence-based practice, nursing theory, decision-making, health policy and community/public health.

NR510 Nursing Science in Practice 3.0 Credits

This course examines the theoretical foundations of nursing, including the history of nursing theory and knowledge development from early philosophies to post- modern concepts. The critical relationships of theory, research, and practice are explored. Students will discuss the relevance and applicability of selected theories in today's health care environment, with a focus on health care improvement initiatives

NR520 Health Policy and Population Health 3.0 Credits

This course explores global health issues from a nursing perspective. The role of the nurse as a change agent to affect local and global health policies, and as an advocate to promote global health and reduce the risk of disease is explored. The UN's Sustainable Development Goals are analyzed for application and evaluation of a "global" community assessment.

NR530 Inferential Statistics 3.0 Credits

This course introduces graduate level statistics for health care professionals. The course encourages students to think critically about data analysis and research design in relationship to evidence- based practice. Students are expected to critically examine research reports, calculate statistics, and complete a research design.

NR540 Evidence Based Practice 3.0 Credits

This course focuses on the clinical application of evidence-based research to inform clinical decision making. Evidence from systematic reviews of quantitative and qualitative research, expert opinion, and evidence-based practice guidelines will be critiqued for their application to a current nursing issue or problem. Students will evaluate the use of evidence-based research to initiate change and improve health care outcomes.

NR545 Clinical & Classroom Strategies 3.0 Credits

This course is designed to introduce the learner to theories and evidence-based practice related to teaching strategies in the classroom and clinical setting. It emphasizes student teacher relationships and explores learning styles. Topics include the influences of regulatory and patient safety requirements as well as ethical and legal issues affecting all aspects of nursing education.

NR547 Evidence Based Curriculum Design 3.0 Credits

This course is designed to introduce the learner to theories, standards and techniques to design and evaluate nursing educational programs and evidence-based curricula. It explores faculty roles, including both collegiate and staff development/client-centered environments. Topics include the influences of regulatory and patient safety requirements as well as ethical and legal issues affecting all aspects of nursing education.

NR549 Evaluating Learning Competence

3.0 Credits

This course introduces the learner to evidence-based evaluation and testing in nursing education. Topics include strategies for evaluation methods in a variety of settings that address critical thinking, clinical performance, employee competence, and educational programs.

NR565 Strategic Plan Project Management Nurses I

3.0 Credits

This course examines the nurse leader's role as a change agent in today's complex, business-based health care arena. The dynamics of strategic planning will be discussed as they relate to those challenges facing nursing and the nursing profession. This course will lay the foundation for the development of a strategic plan in part II of the course.

NR570 Strategic Plan Project Management Nurses II

3.0 Credits

NR570 expands on NR565 through the application of the strategic planning process as a nursing management and leadership tool to improve health care outcomes. Utilizing the strategic planning tools discussed in NR565, students will develop a comprehensive strategic plan after analysis of a specific organization within the context of its internal and external environment. Prerequisite: NR565 Strategic Planning and Project Management for Nurses I.

NR575 Advanced Pharmacology

3.0 Credits

This course will explore pharmacologic principles that professional nurses routinely utilize in clinical practice. This course is designed to provide opportunities to expand the M.S.N. student's knowledge of pharmacotherapeutics and pharmacokinetics of in broad categories of pharmacologic agents. The purpose of the content is to provide the graduate the knowledge and skills to assess, utilize clinical reasoning, and manage a client's common health problems in a safe, high quality, and cost-effective manner.

NR580 Advanced Pathophysiology

3.0 Credits

This course focuses on pathologic mechanisms of disease that serve as the foundation for advanced clinical assessment, decision-making, and management across the life span etiology, pathogenesis, developmental, environmental influences, and clinical manifestations of major health problems disease will be explored. No prerequisites needed beyond those required in the General Education Core Credits.

NR585 Advanced Health Assessment

3.0 Credits

This course will build upon health assessment skills previously attained in undergraduate nurse education. The process whereby the nurse utilizes comprehensive physical, psychological, and cultural assessment across the life span to gather specific data relevant to common health problems is emphasized. Students will apply advanced health assessment principles and skills for comprehensive examination of clients. No prerequisites needed beyond those required in the General Education Core Credits.

NR690 Nursing Capstone Seminar Project

6.0 Credits

The capstone course focuses on the integration and application of major concepts covered throughout the graduate nursing program. The course integrates learning approaches of seminar discussions, completion of a project, and a precepted capstone project experience. Seminar time focuses on analysis of theoretical and practical components of the advanced nursing role in nursing education and practice. Students will be required to register for and complete NR009-Nursing Document Collection in the term prior to taking NR690

NR700 Found Concepts Prof Nursing Lec

3.0 Credits

This fundamentals course is designed to teach the didactic components of a comprehensive, holistic health history and physical examination of individuals/ families across the lifespan. The course provides an opportunity for students to develop competencies necessary to provide care to individuals using the nursing process framework and critical thinking. Students learn theories and concepts intrinsic to the art and science of nursing practice. Co-requisite NR701: Foundations Practicum

NR701 Found Cncpt-Hlth Assess Lab & Pract

3.0 Credits

This fundamentals course is designed to teach the didactic components of a comprehensive, holistic health history and physical examination of individuals/ families across the lifespan. The course provides an opportunity for students to develop competencies necessary to provide care to individuals using the nursing process framework and critical thinking. Students learn theories and concepts intrinsic to the art and science of nursing practice. Co-requisite NR700

NR710 Nursing Management Common Health Alter

3.0 Credits

This course focuses on the common acute or chronic health alterations of individuals across the lifespan. Cultural, psychosocial and ethical considerations for these physiological conditions will be explored. Evidence based interventions will be introduced, and concepts of health promotion and prevention emphasized. Co-requisite: NR711 Nursing Management of Common Health Alterations Across the Lifespan Practicum (clinical). Pre-requisite: NR700 & NR701.

- NR711 Nrsng Mgmt Common Hlth Alt Pract 3.0 Credits**
This course focuses on the common acute or chronic health alterations of individuals across the lifespan. Cultural, psychosocial and ethical considerations for these physiological conditions will be explored. Evidence based interventions will be introduced, and concepts of health promotion and prevention emphasized. Co-requisite: NR710 Nursing Management of Common Health Alterations Across the Lifespan Practicum (clinical).
- NR720 Nrsng Mgmt Complex Hlth Alt 3.0 Credits**
This course prepares the student to provide comprehensive, patient-centered care for the individual with complex health alterations. Building on previous MEPN courses, theory will focus on concepts associated with complex illness and injury, and interventions that are grounded in evidence, and take into consideration cultural, psychosocial and ethical considerations. Pre-requisite: NR711 Nursing Management of Complex Health Alterations Across the Lifespan Practicum (clinical/lab). Co-requisite: NR721 Nursing Management of Common Health Alterations Across the Lifespan Practicum (clinical/lab). Pre-requisite: NR710 & NR711
- NR721 Nrsng Mgmt Complex Hlth Alt Pract 3.0 Credits**
This course prepares the student to provide comprehensive, patient-centered care for the individual with complex health alterations. Building on previous MEPN courses, theory will focus on concepts associated with complex illness and injury, and interventions that are grounded in evidence, and take into consideration cultural, psychosocial and ethical considerations. Pre-requisite: NR710 and NR711
- NR731 Mental Health Nursing Practicum 1.0 Credit**
This course promotes exploration of factors that affect psychological wellness and illness of individuals. Students will explore the unique needs of individuals with mental-health issues across the lifespan, examining their responses to life stressors while considering cultural, psychosocial and ethical factors. Co-requisite: NR730 Mental Health Nursing
- NR740 Comm Health Promotion Practicum 1.0 Credit**
This clinical practicum introduces the student to concepts relevant to community-based nursing practice including informatics, communicable diseases, epidemiology, and disasters. Students will identify factors influencing community health including the determinants of health and its impact on vulnerable populations in diverse practice settings. There is a clinical rotation included in this course.
- NR750 Maternal/Child Nursing (Lecture) 3.0 Credits**
The focus of this course is exploring the needs of the individual as they relate to childbearing and children. Health issues involving ante-partum, intra-partum, and post-partum as well as growth and development are explored. The student is introduced to content within a theoretical context of individuals as part of a family unit, and larger culturally diverse society. Co-requisite: NR751 Women's Health Practicum & Pediatric Health Practicum (clinicals).
- NR751 Women's Health Practicum (OB/Gyn) 1.0 Credit**
The focus of this course is exploring the needs of the individual as they relate to childbearing and children. Health issues involving ante-partum, intra-partum, and post-partum as well as growth and development are explored. The student is introduced to content within a theoretical context of individuals as part of a family unit, and larger culturally diverse society.
- NR752 Pediatrics Practicum 1.0 Credit**
The focus of this course is exploring the needs of the individual as they relate to childbearing and children. Health issues involving ante-partum, intra-partum, and post-partum as well as growth and development are explored. The student is introduced to content within a theoretical context of individuals as part of a family unit, and larger culturally diverse society. Co-requisite: NR751 Women's Health Practicum & Pediatric Health Practicum (clinicals).
- NR760 Immersion Adv Generalist Practicum 4.0 Credits**
This course is a clinical immersion experience designed to provide comprehensive learning opportunities in a variety of hospital settings. The clinical immersive platform allows students to apply main theories, professional leadership, critical thinking, health promotion and risk reduction, illness and disease management, ethical practices, evidence-based practices and global cultural competencies in clinical practice. The application of these theories and principles will occur during students' mentored clinical experiences and during clinical seminar activities.
- NR790 Capstone 4.0 Credits**
The capstone course focuses on the integration and application of major concepts covered throughout the MEPN program. Emphasis will be on quality improvement incorporating concepts such as quality and safety, patient engagement, change, teamwork and communication,

and leadership. The course consists of seminar discussions and the application of knowledge and clinical experiences in the development and presentation of a quality improvement project. The quality improvement project can serve as a bridge to future employment.

PTH504 Physiology In Health & Disease 3.0 Credits

This course provides the student with a comprehensive understanding of the physiological systems of the human body and the inter-relationships in its responses to exercise and disease processes. It emphasizes critical thinking and analytical skills in the application of the principles and concepts of human pathophysiology to physical therapy practice and wellness. Prerequisite: Successful Completion of Prior Coursework

PTH504A Physiology In Health & Disease 4.0 Credits

This course provides the student with a comprehensive understanding of the physiological systems of the human body and the inter-relationships in its responses to exercise and disease processes. It emphasizes critical thinking and analytical skills in the application of the principles and concepts of human pathophysiology to physical therapy practice and wellness. Prerequisite: Enrollment in the Doctor of Physical Therapy program

PTH506 Intro To Professional Development 2.0 Credits

This course provides an introduction to the history of physical therapy, the principles of ethics, professional behavior, legal issues and cultural competency. In preparation for integrated clinical experiences, the student is introduced to the roles and responsibilities of the physical therapist in clinical practice, the profession and the community, including the essentials of documentation and proper medical terminology. Prerequisite: Enrollment in the Physical Therapy Program.

PTH508 Neuroanatomy 3.0 Credits

This course provides an integration of neuroanatomy, neurophysiology, and neuropsychology with an emphasis on how the sciences help us to understand human behavior and movement. A foundation is developed for understanding neural control of various functions but with a concentration on the control of movement. Prerequisite: Successful Completion of Prior Coursework

PTH511 Mgmt Pediatric/Adolesc Patient 5.0 Credits

This course explores the management of the pediatric/adolescent patient. Content includes examination, evaluation, diagnosis, prognosis, intervention and measurement of outcomes as they relate to the 0-21-year population. Topics of normal/abnormal development, standardized testing and use of a team approach are investigated. Evidence based practice, clinical cases and The Guide to Physical Therapist Practice are implicit aspects of the course. Prerequisites: Successful completion of all coursework.

PTH512 Motor Control Across the Lifespan 4.0 Credits

This is a fundamental course introducing students to the understanding and clinical application of the theories of motor learning and motor control as they relate to the life span of human development. Exploration of the influence on motor control development on body systems and motor function with respect to aging is facilitated through readings and research of current evidence. Prerequisite: Successful completion of prior coursework.

PTH512A Motor Control Acr Lifespan 3.0 Credits

This is a fundamental course introducing students to the understanding and clinical application of the theories of motor learning and motor control as they relate to the life span of human development. Exploration of the influence of motor control development on body systems and motor function with respect to aging is facilitated through readings and research of current evidence. In addition, students will gain an understanding of the intricacies of plasticity and neurogenesis as a basis for the development, learning, and recovery of function. Finally, students will learn the basic PT examination components for patients with neurological deficits. Emphasis will be placed on the selection and skill acquisition of appropriate examination tests and measures with the utilization of standardized outcome measures from current evidence. Prerequisite: Successful completion of prior coursework.

PTH514 Health Practice Management 3.0 Credits

This course introduces students to the administrative side of health care in the United States and its relation to the practice of physical therapy. Exploring specifically the history of the U.S. health care industry, its development, current policy in the health care systems, principles of administration, rules and regulations governing physical therapy practice, international comparisons are made, and cultural differences identified. Prerequisites: Successful completion of prior coursework.

PTH514A Health Practice Management 3.0 Credits

This course introduces students to the administrative side of healthcare in the United States and its relation to the practice of physical therapy. Exploring specifically the history of the U.S. healthcare industry, its development, current policy in the healthcare systems,

principles of administration, rules and regulations governing physical therapy practice, international comparisons are made, and cultural differences identified. Prerequisite: Successful completion of prior coursework.

PTH516 Psychosocial Issues Intensive

3.0 Credits

This course offers a general overview of various aspects of behavioral sciences as they apply to the profession of Physical Therapy. Students are introduced to the inter- and intrapersonal dynamics of working with patients/clients. Learning is facilitated by class discussions, role playing and guest speakers. Topics include conflict resolution, stress management, body image/ sexuality, domestic violence, coping with death and dying, and cultural sensitivity. Prerequisites: Successful completion of prior coursework.

PTH516A Psychosocial Issues in HC

2.0 Credits

This course offers a general overview of various aspects of behavioral sciences as they apply to the profession of Physical Therapy. Students are introduced to the inter and intra personal dynamics of working with patients/clients. Learning is facilitated by class discussions, role playing and guest speakers. Topics include conflict resolution, stress management, body image/sexuality, domestic violence, coping with death and dying, and cultural sensitivity. Prerequisite: Successful completion of prior coursework.

PTH517 PYI Intgd Clinical Education Exp

1.0 Credit

The first of two integrated clinical courses that places the student in the clinical setting for 1 day per week throughout a term. The student is introduced to the roles and responsibilities of the physical therapist in practice, the profession and the community and is able to provide care commensurate with academic preparation. Prerequisites: Successful completion of all prior coursework.

PTH518 Research Methods In Physical Therapy

2.0 Credits

The purpose of this course is to instruct students in the basic principles of research in physical therapy. Topics to be covered include research methodology and study design, hypothesis generation and testing, as well as principles of data collection and outcome assessment. Prerequisite: Enrollment in the Doctor of Physical Therapy Program

PTH519 Critical Inquiry

1.0 Credit

The purpose of this course is to educate the student in the methods of critical inquiry and analysis of the literature. To effectively utilize evidence-based practice it is essential for clinicians to develop the skills necessary to critically evaluate the literature. Determining the strength of the available evidence will be crucial in selecting clinical examination techniques, determining a diagnosis, determining a prognosis, and selecting intervention strategies. Prerequisites: Successful completion of prior coursework.

PTH523 Anatomy

6.0 Credits

This course provides a comprehensive study of the gross anatomical structure of the human body. Using a regional approach, this course emphasizes the musculoskeletal structures of the appendicular and axial skeleton and includes visceral anatomy. The laboratory experience includes plastinate prosecutions of human cadavers, interactive computer programs and cadaver lab experiences. Active learning and problem solving are the primary teaching methods used in the laboratory component. This course provides the foundation for understanding of gross anatomy as it relates to the practice of physical therapy. Prerequisite: Enrollment in the Doctor of Physical Therapy Program.

PTH524 Clinical Pharmacology

2.0 Credits

This course introduces physical therapy students to the basic principles of pharmacology and provides knowledge of drug actions, interactions and side effects in medications used to treat conditions encountered in the most typical physical therapy patient populations. A foundation is provided for further study regarding specialty practice and the evolution of new drug therapies. Prerequisites: Successful completion of all prior coursework.

PTH524A Clinical Pharmacology

2.0 Credits

This course introduces physical therapy students to the basic principles of pharmacology and provides knowledge of drug actions, interactions and side effects of medications used to treat conditions encountered in the most typical physical therapy populations. A foundation is provided for further study regarding specialty practice and the evolution of new drug therapies. Prerequisite: Successful completion of prior coursework.

PTH525 Integrated Clinical Education II

2.0 Credits

This is the second 40-hour integrated clinical experiences in which each student is provided with opportunities to be involved in direct patient care and to practice clinical skills learned to date in the classroom and lab. This course also includes a 10-hour classroom component to prepare students for a full-time clinical experience that occurs in the subsequent term. Prerequisite: Successful completion of all prior Physical Therapy courses.

PTH527 PYII Intdg Clinical Education Exp 1.0 Credit

This is the second 40-hour integrated clinical experience in which each student is provided with opportunities to be involved in direct patient care and to practice clinical skills learned in the classroom and lab. This course also includes a 10-hour classroom component to prepare students for a full-time clinical experience that occurs in the subsequent term. Prerequisite: Successful completion of all prior coursework.

PTH528 Kinesiology 6.0 Credits

Applied anatomy and biomechanics of the neuromuscular and articular systems in normal and abnormal conditions of the head, neck, pelvic girdle, upper/lower extremities and spine. Includes surface anatomy, biomechanics, peripheral and spinal joint mobilization, clinical palpation, and manual muscle testing. Biomechanical principles underlying clinical analysis of posture and gait will also be included. Lecture, case-based application, demonstration and laboratory practice. Prerequisite: Enrollment in the Doctor of Physical Therapy Program.

PTH529 Health Promotion & Wellness I 2.0 Credits

This course introduces students to the fundamental concepts of prevention, health promotion, wellness, and fitness incorporating the Guide to Physical Therapist Practice, Healthy People 2020, and the Precede-Proceed Model of Health Program Planning. Students will synthesize knowledge gained to develop a framework for a community-based health promotion project. Prerequisites: Successful completion of all prior Physical Therapy courses.

PTH529A Health Promotion & Wellness 2.0 Credits

This course introduces students to the fundamental concepts of prevention, health promotion, wellness, and fitness incorporating the Guide to Physical Therapist Practice, Healthy People 2020, and the PRECEDE- PROCEED Model of Health Program Planning. Students will synthesize knowledge gained to develop a framework for a community-based health promotion project. Prerequisite: Successful completion of prior coursework.

PTH530 Health Promotion & Wellness II 1.0 Credit

This course implements the fundamental concepts of prevention, health promotion, wellness, and fitness incorporating the Guide to Physical Therapist Practice, Healthy People 2020, and the Precede-Proceed Model of Health Program Planning. Students will synthesize knowledge gained in Health Promotion & Wellness I to implement and evaluate a community-based health promotion project. Prerequisite: Successful completion of all prior Physical Therapy courses.

PTH531 Foundations of PT I 2.0 Credits

This course develops students' basic physical therapy clinical competencies. Principles of examination and evidence-based interventions are taught through lectures, laboratory sessions, and online discussions. Course content includes: vital signs, documentation, body mechanics, and goniometry, and utilizes the Guide to Physical Therapist Practice. This course serves as a foundation to all Physical Therapy Practice courses in the curriculum. Prerequisite: Successful completion of prior coursework.

PTH531A Intro to PT Exam 3.0 Credits

This course develops students' foundational physical therapy clinical competencies. Principles of patient interview, examination, evaluation, and evidence-based interventions are taught through lectures, laboratory sessions, and online discussions. Course content includes: vital signs, documentation, body mechanics, strength testing, goniometry, patient handling skills including: bed mobility, transfers, use of assistive devices, functional testing, bariatrics, architectural barriers and utilizes the Guide to Physical Therapist Practice. Prerequisite: Successful completion of prior coursework.

PTH532 Fndtns Of Physical Therapy Prac II 2.0 Credits

This course further develops students' basic physical therapy clinical competencies. Principles of examination and evidence-based interventions are taught through lectures, laboratory sessions, and online discussions. Course content includes goniometry, bed mobility, transfers, use of assistive devices, functional testing, bariatrics and architectural barriers. This course serves as a foundation to all Physical Therapy Practice courses in the curriculum. Prerequisite: Successful completion of prior coursework.

PTH534 Cardiovascular & Pulmonary Pt 3.0 Credits

This course is designed to build on the knowledge attained in Anatomy and Pathophysiology and apply this to physical therapy assessments and interventions for cardiac, pulmonary, and vascular disorders. This will include primary and secondary medical dysfunctions as well as post-surgical evaluations and treatments. Critical care, acute, subacute, outpatient and community settings will be addressed, as well as health promotion and primary prevention. Exercise testing, exercise prescription, cardiopulmonary tests and interventions and their evidence will also be covered. Prerequisite: Successful completion of prior coursework.

- PTH534A CV and Pulm PT I 4.0 Credits**
This course is designed to build on the knowledge attained in anatomy, physiology, and pathophysiology and apply this to physical therapy assessments and interventions for cardiac, pulmonary, vascular disorders. This will include primary and secondary medical dysfunctions as well as post-surgical evaluations and treatments. Exercise testing, exercise prescription, cardiopulmonary tests and interventions and their evidence will also be covered. Prerequisite: Successful completion of prior coursework.
- PTH537 Musculoskeletal 1 -Upper Extremity 4.0 Credits**
This course is a primary course in the Physical Therapy management of patient/client with musculoskeletal conditions. The course of study includes the processes of examination, diagnosis, prognosis, interventions and outcomes as they relate to patients/clients with musculoskeletal conditions relating to the upper extremity. Prerequisite: Successful completion of all prior Physical Therapy courses.
- PTH537A Musculoskeletal System I – Upper Ex 4.0 Credits**
This course is a primary course in the physical therapy management of patient/client with musculoskeletal conditions. The course of study includes the processes of examination, evaluation, diagnosis, prognosis, intervention, and outcomes as they relate to patients/clients with musculoskeletal conditions relating to the upper extremity. Prerequisite: Successful completion of all prior Physical Therapy courses.
- PTH538 Musculoskeletal 2 - Lower Extremity 4.0 Credits**
This course is a primary course in the physical therapy management of patient/client musculoskeletal conditions. The course of study includes the process of examination, evaluation, diagnosis, prognosis, intervention and outcomes as they relate to patients/clients with musculoskeletal conditions relating to lower extremity. Prerequisite: Successful completion of all prior physical therapy courses.
- PTH538A Musculoskeletal System II – Lower E 4.0 Credits**
This course is a primary course in the physical therapy management of patient/client with musculoskeletal conditions. The course of study includes the processes of examination, evaluation, diagnosis, prognosis, intervention, and outcomes as they relate to patients/clients with musculoskeletal conditions relating to the lower extremity. Prerequisite: Successful completion of all prior Physical Therapy courses.
- PTH539 Musculoskeletal 3 - Spine 5.0 Credits**
This course is a primary course in the physical therapy management of patients/clients with musculoskeletal conditions. The course of study includes the processes of examination, evaluation, diagnosis, prognosis, interventions and outcomes as they relate to patients/clients with musculoskeletal conditions relating to the spine. Students apply the principles and techniques of therapeutic exercise to various orthopedic disorders. Prerequisites: Successful completion of all prior Physical Therapy courses.
- PTH540 Foundations of Neuro 6.0 Credits**
This course focuses of plasticity of the nervous system as a basis for development, learning, and recovery of function. Changes in the nervous system and their interaction with pathology are examined. Current evidence-based research in neurological rehabilitation will be presented. Students will be provided with a foundation for examining and evaluating individuals with neurological deficits (acquired/progressive/developmental). Prerequisite: Successful completion of prior coursework.
- PTH540A Neurological Clinical Management I 4.0 Credits**
This course is the first within a series of two neurological courses specific to PT management of patients with neurological deficits. The students will develop skills in examination, evaluation, and interventions for individuals with movement dysfunction due to neurological deficits (acquired/progressive/developmental). Each course will emphasize the selection of appropriate examination components, formulating an evaluation, and determining appropriate interventions, including assessment and modification of treatment plans based on patient response. The two Neuro Clinical Management courses will utilize a top-down approach through representative case studies of upper motor neuron to lower motor neuron conditions, exploring PT care of the patient with neurological involvement. Emphasis will be placed on synthesis of information gathered from use of the ICF to develop an appropriate plan of care for each condition covered. Students will utilize current evidence to inform their decisions. Prerequisite: Successful completion of prior coursework.
- PTH543 Neurological Clinical Management II 5.0 Credits**
The course is specific to PT management of patients with neurological deficits. The student will develop skills in examination, evaluation, and interventions for individuals with movement dysfunction due to neurological deficits (acquired/progressive/developmental). Emphasis will be placed on development of appropriate evaluation and intervention skills, including assessment and modification of treatment plans based on patient response.

PTH544 Integumentary System

2.0 Credits

This course provides a comprehensive exploration of the integumentary system, normal and abnormal physiology, recognition of dermatological conditions requiring referral to other health care providers, patient's individual contributing factors in the causes of wounds, and the clinical management of wounds in the context of current physical therapy practice. Prerequisite: Successful completion of prior coursework.

PTH544A Integumentary System

2.0 Credits

This course provides a comprehensive exploration of the integumentary system, normal and abnormal physiology, recognition of dermatological conditions requiring referral to other healthcare providers, patient's individual contributing factors in the causes of wounds, and the clinical management of wounds in the context of current physical therapy practice. Prerequisite: Successful completion of prior coursework.

PTH545 Ther Exer & Soft Tiss Mobilization

3.0 Credits

This course develops students' basic physical therapy competencies in prescription, and implementation of therapeutic exercise and the use of soft tissue mobilization. Principles of evidence-based interventions are taught through lectures, laboratory sessions, and online discussions. Course content includes: documentation, soft tissue mobilization, theory, and practice of therapeutic exercise, and utilizes the Guide to Physical Therapy Practice. Prerequisite: Successful completion of all prior coursework.

PTH545A Intro to Therapeutic Exercise

3.0 Credits

The Therapeutic Exercise course is a fundamental component of the Doctor of Physical Therapy program, designed to equip students with advanced knowledge and practical skills in the application of therapeutic exercise techniques for the management and rehabilitation of musculoskeletal and neuromuscular conditions. Through a comprehensive blend of theoretical concepts, evidence-based practices, and hands-on experiences, students will develop the proficiency required to design, implement, and modify exercise programs tailored to individual patient needs. Prerequisite: Successful completion of prior coursework.

PTH546 Physical Agents

1.0 Credit

This course develops students' basic physical therapy competencies in the use of physical agents. Course content includes: cryotherapy, hydrotherapy, thermal therapy, ultrasound, electric stimulation, light agents, mechanical agents and documentation utilizing the Guide to Physical Therapist Practice. Principles of evidence-based interventions are taught through lectures, laboratory sessions, and online discussions. Prerequisite: Successful completion of prior coursework.

PTH546A Physical Agents

1.0 Credit

This course develops students' basic physical therapy competencies in the use of physical agents. Course content includes: cryotherapy, hydrotherapy, thermal therapy, ultrasound, electric stimulation, light agents, mechanical agents and documentation utilizing the Guide to Physical Therapist Practice. Principles of evidence-based interventions are taught through lectures, laboratory sessions, and online discussions. Prerequisite: Enrollment in the Doctor of Physical Therapy program

PTH547 Physical Agent Modalities

2.0 Credits

This 2-credit course develops students' basic physical therapy competencies in the use of physical agents. Course content includes: cryotherapy, hydrotherapy, thermal therapy, ultrasound, electric stimulation, light agents, mechanical agents and documentation utilizing the Guide to Physical Therapist Practice. Principles of evidence-based interventions are taught through lectures, laboratory sessions, and online discussions. Prerequisite: Successful completion of prior coursework.

PTH550 Research Methods in PT I

2.0 Credits

This course covers the basic principles of research in physical therapy; it is the first of a four course research methods sequence. Topics include research methodology and study design, hypothesis generation and testing, principles of data collection and outcome assessment. In addition, students will select a research project from ideas presented by faculty, complete a thorough literature review of the topic, and work in small groups to complete the forms necessary for institutional review board project approval. Prerequisite: Successful completion of prior coursework.

PTH550A EBP I

1.0 Credit

This course covers the basic principles of research in physical therapy; it is the first of a three course research methods sequence. Topics include research methodology and study design, hypothesis generation and testing, principles of data collection and outcome assessment. In addition, students will select a research project from ideas presented by faculty, complete a thorough literature review of the topic, and work in small groups to complete the forms necessary for institutional review board project approval. Prerequisite: Enrollment in the Doctor of Physical Therapy program

PTH560 Research Methods in PT II**2.0 Credits**

The purpose of this course is to educate the student in the methods of critical inquiry and analysis of the literature. To effectively utilize evidence-based practice it is essential for clinicians to develop the skills necessary to critically evaluate the literature. Determining the strength of the available evidence will be crucial in selecting clinical examination techniques, determining a diagnosis, determining a prognosis, and selecting intervention strategies. Building on the knowledge acquired in Research Methods I, students will gather and analyze data related to their faculty-sponsored project. This effort culminates at the end of the term in submission of a scholarly abstract for conference presentation.

PTH560A EBP II**2.0 Credits**

This course covers methods of critical inquiry and analysis of literature in the context of evidence-based practice. Building on this knowledge, students will gather and analyze data related to their faculty-sponsored project initiated in Research Methods I culminating in the submission of a scholarly abstract for conference presentation. Prerequisite: Successful completion of prior coursework.

PTH599 Independent Study**0.0 Credits**

Independent study offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Program Director at least one week before the term in which the Independent Study is to occur.

PTH599A Independent Study**1.0 Credit**

Independent study offers an opportunity to explore an area of study not included in the Catalog listing of approved courses. The topic should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Program Director at least one week before the term in which the Independent Study is to occur.

PTH601 Clinical Experience I**6.0 Credits**

This is the first full time clinical experience (8 weeks) under the supervision and guidance of licensed physical therapists in facilities throughout the U.S. Students practice skills and knowledge acquired during the first year of the curriculum in a wide variety of clinical settings and begin to develop entry-level competence in essential physical therapy practice skills. Prerequisites: All Physical Therapy course work in professional year I must be successfully completed.

PTH602 Clinical Experience II**6.0 Credits**

This is the second full time clinical experience (11 weeks) under the supervision and guidance of licensed physical therapists in facilities throughout the U.S. Students apply skills and knowledge acquired during the didactic phase of the curriculum and in previous clinical experiences in a wide variety of clinical settings and approach entry-level competence in many essential physical therapy practice skills. Prerequisites: All Physical Therapy course work in professional year I and II must be successfully completed.

PTH603 Clinical Experience III**6.0 Credits**

This is the third and final full time clinical experience (11 weeks) under the supervision and guidance of licensed physical therapists in facilities throughout the U.S. Students apply skills and knowledge acquired during the didactic phase of the curriculum and in previous clinical experiences in a wide variety of clinical settings and achieve entry-level competence in essential physical therapy practice skills. Prerequisites: Successful completion of all physical therapy coursework including PTH 601 and 602.

PTH604 Clinical Experience IV**6.0 Credits**

This is the final full-time clinical experience (11 weeks) under the supervision and guidance of licensed physical therapists in facilities throughout the US. Students will refine skills and knowledge acquired in all coursework and clinical experiences to date and will demonstrate entry-level or near entry-level competence. Prerequisites: Successful completion of all physical therapy coursework including PTH601, 602 and 603.

PTH605 Advanced Clinical Affiliation I**3.0 Credits**

This is the first full time clinical experience for students with significant prior health care clinical experience (e.g., PTAs). Students are challenged to progress toward entry-level competence in essential physical therapy practice skills, at an accelerated pace. They elect six weeks full time or ten to twelve weeks of half days in clinical sites throughout the U.S. Prerequisites: All Physical Therapy course work in professional year I and II must be successfully completed, and all PT practice courses with at least a 3.00 GPA.

PTH606 Integrated Clinical Experience (PY1)**0.0 Credits**

This course is an integrated clinical experience that will occur throughout the didactic curriculum. It is a weekly clinical experience with Franklin Pierce's pro bono clinic that coincides with a classroom requirement devoted to preparation for terminal full-time experiences.

Similar to the didactic curriculum, this is a hybrid experience with both live- and virtual patient encounters. It provides each student with an opportunity to work with skilled clinicians evaluating and treating patients/clients with varied diagnoses and disabilities. Prerequisite: Successful completion of prior coursework.

PTH606A Integrated Clinical Exp I 1.0 Credit

This course is an integrated clinical experience that will occur throughout the didactic curriculum. It is a weekly clinical experience with Franklin Pierce's pro bono clinic that coincides with a classroom requirement devoted to preparation for terminal full-time experiences. Similar to the didactic curriculum, this is a hybrid experience with both live- and virtual patient encounters. It provides each student with an opportunity to work with skilled clinicians evaluating and treating patients/clients with varied diagnoses and disabilities. This course continues into PTH 607. Taken twice in Terms 1 and 3. Prerequisite: Successful completion of prior coursework.

PTH607 Integrated Clinical Experience (PY1 1.0 Credit

This course is an integrated clinical experience that will occur throughout the didactic curriculum. It is a weekly clinical experience with Franklin Pierce's pro bono clinic that coincides with a classroom requirement devoted to preparation for terminal full-time experiences. Similar to the didactic curriculum, this is a hybrid experience with both live- and virtual patient encounters. It provides each student with an opportunity to work with skilled clinicians evaluating and treating patients/clients with varied diagnoses and disabilities. Prerequisite: Successful completion of prior coursework.

PTH607A Integrated Clinical Experience II 1.0 Credit

This course is an integrated clinical experience that will occur throughout the didactic curriculum. It is a weekly clinical experience with Franklin Pierce's pro bono clinic that coincides with a classroom requirement devoted to preparation for terminal full-time experiences. Similar to the didactic curriculum, this is a hybrid experience with both live- and virtual patient encounters. It provides each student with an opportunity to work with skilled clinicians evaluating and treating patients/clients with varied diagnoses and disabilities. This course is a continuation of PTH 606. Taken twice in Terms 2 and 4. Prerequisite: Successful completion of prior coursework.

PTH608 Clinical Education Experience I 4.0 Credits

This is the first full-time clinical experience (8 weeks) under the supervision and guidance of licensed physical therapists in facilities throughout the U.S. Students practice skills and knowledge acquired during the first year of the curriculum in a wide variety of clinical settings and begin to develop entry-level competence in essential physical therapy practice skills. Prerequisite: Successful completion of prior coursework.

PTH610 Professional Seminar 1.0 Credit

This seminar focuses on issues relevant to students entering the internship phase of the curriculum. Areas covered include professional development, social responsibility, job search skills, preparation for the NPTE, and licensure.

PTH610A Professional Sem/Lic Exam Prep 2.0 Credits

This seminar course focuses on issues relevant to students entering the internship phase of the curriculum. Areas covered include professional development, social responsibility, job search skills, preparation for the NPTE, and licensure. Prerequisite: Successful completion of prior coursework.

PTH611 Pain Science 2.0 Credits

This 2-credit course is designed to enhance students' knowledge of the advances in the pain sciences and to provide them with the biopsychosocial assessment and management tools necessary to treat various pain types and conditions across the lifespan and continuum of care. The main topics explored in this course include: 1) pain neuroscience—the main mechanisms underlying the pain experience (including anatomy and physiology) 2) pain assessment utilizing a translational understanding of the main pain mechanisms and standardized assessment tools, 3) individualized management of pain across the lifespan and continuums of care, 4) interprofessional/interdisciplinary management of pain, and 5) the management of various complex pain conditions frequently encountered by physical therapists. Prerequisite: Successful completion of prior coursework.

PTH615 DPT Student Clinic 2.0 Credits

This course is an elective integrated clinical experience prior to the terminal clinical internships. Under the supervision of licensed physical therapists, students will work directly with patients/clients with complex diagnoses and disabilities, providing pro-bono services while honing their evaluation and treatment skills. Prerequisite: Successful completion of all prior Physical Therapy courses.

PTH616A Integrated Clinical Exp III**1.0 Credit**

This course is an integrated clinical experience that will occur throughout the didactic curriculum. It is a weekly clinical experience with Franklin Pierce's pro bono clinic that coincides with a classroom requirement devoted to preparation for terminal full-time experiences. Similar to the didactic curriculum, this is a hybrid experience with both live- and virtual patient encounters. It provides each student with an opportunity to work with skilled clinicians evaluating and treating patients/clients with varied diagnoses and disabilities. Prerequisite: Successful completion of prior coursework.

PTH617A Integrated Clinical Experience IIV**1.0 Credit**

This course is an integrated clinical experience that will occur throughout the didactic curriculum. It is a weekly clinical experience with Franklin Pierce's pro bono clinic that coincides with a classroom requirement devoted to preparation for terminal full-time experiences. Similar to the didactic curriculum, this is a hybrid experience with both live- and virtual patient encounters. It provides each student with an opportunity to work with skilled clinicians evaluating and treating patients/clients with varied diagnoses and disabilities. Prerequisite: Successful completion of prior coursework.

PTH620 Imaging & Diagnostics**2.0 Credits**

Students will be introduced to various radiographic imaging techniques, electrodiagnostic procedures used to evaluate a variety of neuromusculoskeletal pathologies commonly treated by physical therapists. They will learn the indications for these studies, their appropriate uses and limitations, and how to interpret them.

PTH620A Imaging & Diagnostics**2.0 Credits**

Students will be introduced to various radiographic imaging techniques and electro-diagnostic procedures used to evaluate a variety of neuro-musculo-skeletal pathologies commonly treated by physical therapists. They will learn the indications for these studies, their appropriate uses and limitations, and how to interpret them. Prerequisite: Successful completion of prior coursework

PTH623 Mgmt:Patients W/Multi-Sys Involve**3.0 Credits**

Case-based course facilitating integration and application of prior coursework to manage patients with multi-system impairments and increasingly complex clinical problems. Evidence-based principles will be applied to evaluation methods and interventions. Appropriate modifications of plan of care and prognosis will be discussed and applied when appropriate to accommodate changes in patient condition or to adjust for age, race or gender. Prerequisite: Successful completion of prior coursework.

PTH623A CV and Pulm PT II**4.0 Credits**

This course is a continuation of PTH 534A and designed to prepare students to manage dysfunctions that involve more than one system and patients with multiple dysfunctions. Applying evidence-based principles physical therapy diagnoses, prognoses, interventions, and expected outcomes will be determined based on pathology, etiology, and disease progression, and modified as appropriate to accommodate changes in patient condition or to adjust for age, race, or gender. This course introduces students to the unique aspects of the critical care environment, and will include medical equipment, effects of prolonged hospitalization, and the physical therapist's role in multidisciplinary care. Prerequisite: Successful completion of prior coursework.

PTH624 Mgmt Multi-Sys Involmnt 2**4.0 Credits**

This is a case-based, capstone practice course designed to integrate information learned in all previous physical therapy courses and apply this knowledge to management of increasingly complex clinical problems involving multi-systems impairments (cardiovascular/pulmonary, integumentary, musculoskeletal, neuromuscular, as well as gastrointestinal/genitourinary). Evidence-based principles will be applied to evaluation methods and interventions. Critical thinking skills and clinical decision making will be emphasized. Prerequisite: Successful completion of prior coursework.

PTH624A Man PT with Multi-System Impairment**3.0 Credits**

This is a case-based, capstone practice course designed to integrate information learned in all previous physical therapy courses and apply this knowledge to management of increasingly complex clinical problems involving multi-systems impairments (cardiovascular/pulmonary, integumentary, musculoskeletal, neuromuscular, as well as gastrointestinal/genitourinary). Evidence-based principles will be applied to evaluation methods and interventions. Critical thinking skills and clinical decision making will be emphasized. Prerequisite: Successful completion of prior coursework

PTH627 PYII Intdg Clncl Education Exp-Ext**2.0 Credits**

This course is an elective integrated clinical experience prior to the terminal clinical internships. It provides each student with additional opportunities to work with skilled clinicians evaluating and treating patients/clients with varied diagnoses and disabilities. This is a 1-day per week clinical experience. Prerequisite: Successful completion of all prior Physical Therapy courses.

PTH628 Special Topics 2.0 Credits

This course is designed to introduce the students to a variety of special interest topics within the field of physical therapy practice. Topics may vary, and can include: McKenzie approach, aquatic therapy, yoga, canine physical therapy, dry needling, as well as soft tissue techniques including Graston and Mulligan. The course will include lectures and hands on lab experience. Prerequisite: Successful completion of prior coursework.

PTH630 Sports Injury Mgmt & Prevention 2.0 Credits

This course provides students information and knowledge concerning prevention, mechanisms, treatment and rehabilitation of sports injury. Emphasis will be on sports evaluations, treatments and prevention of injury by incorporating principles related to cardiovascular endurance, flexibility, strength training, muscular endurance, plyometrics, speed and agility training. Topics include neurology, orthopedics, sports physical therapy and alternative medicine/complimentary therapies. Prerequisite: Successful completion of prior coursework.

PTH635 Advanced Orthopedic Interventions 2.0 Credits

This course explores a variety of Advanced Orthopedic Interventions within the field of physical therapy practice. Topics may vary based on student interest. Modules of advanced treatment techniques are practiced and presented. This course includes lectures and hands on lab experience. Prerequisite: successful completion of prior coursework.

PTH646A Orthotics and Prosthetics 2.0 Credits

This course provides a study of orthotic/prosthetic utilization in physical therapy practice. The course will introduce concepts of materials, design, fabrication and technology of orthotic/ prosthetic devices. The course will emphasize the principles of gait analysis, types of amputation, wearing/fitting of orthotics/prosthetics and the psychological considerations of the patient with an orthotic/prosthetic device. Prerequisite: Successful completion of prior coursework.

PTH647 Orthotics 1.0 Credit

This course provides a study of orthotic utilization in physical therapy practice. The course will introduce concepts of materials, design, fabrication and technology of orthotic devices. The course will emphasize the principles of gait analysis, wearing/fitting of orthotics and the psychological considerations of the patient with an orthotic device. Prerequisite: Successful completion of prior coursework.

PTH648 Prosthetics 1.0 Credit

This course provides a study of prosthetic utilization in physical therapy practice. The course will introduce concepts of materials, design, fabrication and current and emerging technology of prosthetic devices. The course will emphasize the principles of gait analysis, wearing/fitting of prosthetics and the psychological considerations of the patient with a prosthetic device. Prerequisite: Successful completion of prior coursework.

PTH650 Research Methods in PT III 2.0 Credits

This course continues work on the faculty-based research projects- initiated Research Methods I and II. With guidance from their faculty mentor, students will build upon their project progress to date and craft a manuscript which will be submitted to a professional journal. Prerequisite: Successful completion of prior coursework.

PTH650A EBP III 1.0 Credit

Building on the in the first two courses (PTH 550 and 560) knowledge, students will gather and analyze data related to their faculty-sponsored project initiated in Research Methods II, culminating in submitting a scholarly abstract for a conference presentation. Prerequisite: Successful completion of prior coursework.

PTH660 Research Methods in PT IV 1.0 Credit

The purpose of this course is to finalize all work related to the faculty-based research project begun in PTH550. Students will fine-tune and re-submit abstracts not accepted for professional conference presentation during PTH550. Further, students will develop a conference-quality poster for display at the end of the course with groups presenting an overview of completed projects on the final day of class. Last, research manuscripts will be edited with faculty guidance and resubmitted for further journal consideration should additional editing be required.

PTH690A EBP IV 1.0 Credit

Building on the first three EBP courses' knowledge, students will gather and analyze data related to their faculty-sponsored project initiated in Research Methods III and continue with the faculty advisor. Prerequisite: Successful completion of prior coursework.

PTH695A**EBP V****1.0 Credit**

Building on the first EBP courses knowledge, students will gather and analyze data related to their faculty-sponsored project initiated in Research Methods II, culminating in submitting a scholarly abstract for a conference presentation. Prerequisite: Successful completion of prior coursework.

PTH701**Clinical Education Experience II****5.0 Credits**

This is the second full-time clinical experience (10 weeks) under the supervision and guidance of licensed physical therapists in facilities throughout the U.S. Students apply skills and knowledge acquired during the didactic phase of the curriculum and in previous clinical experiences in a wide variety of clinical settings and achieve entry-level competence in essential physical therapy practice skills. Prerequisite: Successful completion of prior coursework, including PTH608.

PTH701A**Clinical Education Experience I****5.0 Credits**

This is the second full-time clinical experience (10 weeks) under the supervision and guidance of licensed physical therapists in facilities throughout the U.S. Students apply skills and knowledge acquired during the didactic phase of the curriculum and in previous clinical experiences in a wide variety of clinical settings and achieve entry-level competence in essential physical therapy practice skills. Prerequisite: Successful completion of prior coursework.

PTH702**Clinical Education Experience III****5.0 Credits**

This is the third full-time clinical experience (10 weeks) under the supervision and guidance of licensed physical therapists in facilities throughout the U.S. Students apply skills and knowledge acquired during the didactic phase of the curriculum and in previous clinical experiences in a wide variety of clinical settings and achieve entry-level competence in essential physical therapy practice skills. Prerequisite: Successful completion of prior coursework, including PTH608 and PTH701.

PTH702A**Clinical Education Experience II****5.0 Credits**

This is the third full-time clinical experience (10 weeks) under the supervision and guidance of licensed physical therapists in facilities throughout the U.S. Students apply skills and knowledge acquired during the didactic phase of the curriculum and in previous clinical experiences in a wide variety of clinical settings and achieve entry-level competence in essential physical therapy practice skills. Prerequisite: Successful completion of prior coursework.

PTH703**Clinical Education Experience IV****5.0 Credits**

This is the final full-time clinical experience (10 weeks) under the supervision and guidance of licensed physical therapists in facilities throughout the U.S. Students will refine skills and knowledge acquired in all coursework and clinical experiences to date and will demonstrate entry-level or near entry-level competence. Prerequisite: Successful completion of prior coursework including PTH608, PTH701 and 702.

PTH703A**Clinical Education Experience III****5.0 Credits**

This is the final full-time clinical experience (10 weeks) under the supervision and guidance of licensed physical therapists in facilities throughout the US. Students will refine skills and knowledge acquired in all coursework and clinical experiences to date and will demonstrate entry-level or near entry-level competence.

PTH720**Capstone Research Project I****2.0 Credits**

The goal of this course is to integrate and apply information learned in prior research courses. This course requires students to propose a clinically relevant, publishable project to be completed over 2 terms. Using appropriate research methodology, students will identify their research question, complete an appropriate review of the literature, and state the methods to be used to complete the project. Prerequisite: successful completion of all prior Physical Therapy courses.

PTH730**Capstone Research Project II****2.0 Credits**

This is the second course in the Capstone series during which the student will complete their capstone project. Students will complete the results, discussion and conclusion sections of the project, resulting in a full manuscript. All students will create a conference quality poster and deliver a platform presentation of their completed project. Prerequisite: Successful completion of prior coursework

SF502**Media Relations/Techn Sprrt Industry****3.0 Credits**

This course helps students develop the ability to communicate effectively in media relations as it pertains to the Sports Industry. It uses communication theories, media techniques and technology to develop an effective communication strategy.

SF508 **Facilities Management** **3.0 Credits**
This course examines and enhances key skills and abilities regarding the leadership and management of large and complex sports facilities. These skills include Program Evaluation Review Technique and other quantitative programs to respond to the specific needs of quality sports facilities and permit profit maximizing operations.

SF512 **Analytics in Sports Management** **3.0 Credits**
Catalog Description (including prerequisites, credits, course rotation and other information): Analytics in Sports Management addresses analysis and data visualization across all levels of sports administration (amateur, collegiate, professional). Students will examine, address, and evaluate various approaches to develop data into information in a sports organization. Through assignments, case studies, readings, and discussions, students will examine various analytical tools, techniques, and software to develop information and effective decision making. This course will also address predictive analytics, data science, modeling, probability theory, and statistics.

SF582 **Internship In Sports Management** **3.0 Credits**
Students will be partnered with an internship site that matches student career goals. This internship is intended to provide career path advancement and the establishment of key skills in sports management. Prior to the beginning of the internship, each student will submit a provisional action-based research project design for their advisor's approval.

HM

EN110 **Many Voices: Multicultural Lit** **3.0 Credits**
A survey of minority literatures, including African-American, Chinese-American, Native American, and others. Addresses GLE Learning Outcomes Humanities (HM), Critical Reading (CR), and Intercultural Knowledge (IK).

EN115 **Banned Books** **3.0 Credits**
Explores the phenomenon of book banning. It will take a critical look at historical/cultural circumstances surrounding specific instances of book banning throughout the world. Several banned books will be read. Addresses GLE Learning Outcomes Humanities (HM), Technology Literacy (TL) and Written Communication (WC).

EN117 **Buddies, Bullies, & Bodies:YA Lit** **3.0 Credits**
A survey of selected works of young adult literature with additional discussion of the history of and trends in young adult literature and publishing, methods of stimulating reluctant readers, and as time permits the selection of literature for use in classrooms and libraries. Addresses GLE Learning Outcomes Humanities (HM), Critical Reading (CR), and Written Communication (WC).

EN150 **Special Topics in English** **3.0 Credits**
A seminar on a subject chosen by instructor

EN203 **Introduction to British Literature** **3.0 Credits**
This survey course examines major British literary works from 900 to the present with special attention to their literary qualities, historical significance, and conceptual context. Students will develop an appreciation of the works assigned and learn to read and think critically.

EN204 **Introduction to American Literature** **3.0 Credits**
This survey course examines a wide variety of literary texts written by a diversity of American authors. The diverse texts in this course treat a swath of American social and historical issues, offering insight into the varied and vibrant lives of Americans. Students will develop an appreciation of the works assigned and learn to read and think critically.

EN209 **Creative Nonfiction Workshop** **3.0 Credits**
This course introduces creative nonfiction, a genre of non-academic writing that encompasses many kinds of prose. Students will explore a wide range of topics by reading a selection of memoir, biography, travel writing, science writing, and literary journalism, and then apply the conventions of these forms in their own writing. They will produce creative nonfiction pieces while experimenting with voice, style, form, and the use of research to enrich writing.

EN210 **Introduction to Literary Studies** **3.0 Credits**
An introduction to various genres, the course trains students in methods for analyzing and understanding literature; how to write about literature and develop vocabulary appropriate to literary study.

EN215	Slavery: Literature and Legacy	3.0 Credits
Selected literary works from enslaved people in the Americas, Africa, the Caribbean, and Asia, read with attention to cultural and political themes stemming from the struggle with the heritage of colonialism and human trafficking. Addresses GLE Learning Outcomes Humanities (HM), Critical Reading (CR), and Intercultural Knowledge (IK).		
EN225	Sophomore Assessment Seminar	1.0 Credit
Provides English majors with an opportunity to reflect on their own educational experience to date, with the major and with general education; they also have the opportunity to review the contents of their e-Portfolios on TaskStream. Students will conduct a systematic self-assessment of their academic work, measure their progress toward achieving the goals of the English major.		
EN232	The Teaching of Writing	3.0 Credits
Examines current theories of the composing process with emphasis on information generating, audience awareness, error analysis, and the evaluation of writing. Students design writing assignments for secondary school students and write using forms and subjects of their own choice.		
EN235	Fiction Workshop	3.0 Credits
A course in the basic techniques of fiction writing. Readings from major works selected for their relevance.		
EN237	Poetry Workshop	3.0 Credits
A course in the basic techniques of writing poetry. Readings from major works selected for their relevance.		
EN250	Special Topics in English	3.0 Credits
A seminar on a subject chosen by instructor		
EN251	Us vs.Them: Intro to Law & Lit	3.0 Credits
No society can flourish with strict enforcement of rules; every society softens the rigors of strict legalism to some extent. This course examines imaginative literature and literary techniques of analysis as a means of addressing the tensions inherent in practicing, enforcing, and interpreting law, particularly when one attempts to abstract from the specific circumstances of a case the tug of emotion, personalities of disputants, and other human factors. Addresses GLE Learning Outcomes Humanities K&U; Critical Thinking (CT) and Critical Reading (CR).		
EN270	Eve was Framed:Women Writers	3.0 Credits
A study of selected works by significant women writers, including at least one work outside the British and American tradition. Addresses GLE Learning Outcomes Humanities (HM), Critical Reading (CR), and Critical Thinking (CT).		
EN299	Independent Study in English	0.0 Credits
Independent Study in English (1-6 credits). Offers the opportunity to explore an area of study not listed in the catalog. The topic should be jointly selected and carefully designed by the student and faculty sponsor, and be approved by the Dean or their designee. With rare exceptions, the student must have a cumulative grade point average of 3.00. A "Proposal for Independent Study" form may be obtained from the Registrar's website. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.		
EN303	Epic and Romance	3.0 Credits
The primary texts for this course can include the ancient epics of Homer and Virgil as well as the medieval shape-shifting romances, Beowulf, Sir Gawain and the Green Knight, and Chaucer's tales. They will learn the about traditions, conventions, and themes of classic texts and see how they are applied in more contemporary literature.		
EN304	Chaucer	3.0 Credits
This course offers intensive study of The Canterbury Tales with some attention paid to other texts by Chaucer. Students will gain an understanding of the development of the English Language, medieval poetic conventions, and historical context that impacted the author and his text.		
EN313	Shakespeare	3.0 Credits
A study of selected major works of the bard from among tragedies, histories, comedies, poems and sonnets.		

- EN321 English Romanticism and Its Legacy 3.0 Credits**
A study of selected works of Wordsworth, Hemans, Coleridge, Byron, Keats, L.E.L., Shelley, Lamb, Hazlitt, and DeQuincey.
- EN330 Books to Box Office 3.0 Credits**
This course examines the intersection of film and literary texts. Clearly, fiction is a go-to source for film makers, and in this course, we examine what happens when short stories and novels are made into film, considering the ways in which we approach film and literary texts differently. After reading and viewing, we will analyze at length the two genres, asking questions like: What shifts from written text to screen? How is tone translated from written text to screen? Is the screen version faithful to the written text, and if not, why not? What directorial choices get made and why? No background in film studies is needed for this course.
- EN335 Modern and Contemporary British Lit 3.0 Credits**
A study of important modern British poets from Hardy and Hopkins to the present, and British prose writers since the end of the Victorian period, including Hardy, Conrad, Orwell, Joyce, and Woolf.
- EN342 American Novel to 1900 3.0 Credits**
Detailed study of the works of such authors as Chopin, Davis, Alcott Hawthorne, Melville, Twain, Stowe and James.
- EN343 American Short Story 3.0 Credits**
A study of the American short story from its origin to the present day.
- EN347 Rise of the Novel 3.0 Credits**
The origins and development of the novel in 18th and 19th C British literature, including but not limited to works by Austen, the Brontës, Defoe, Dickens, Eliot, Fielding, Hardy, Shelley, Sterne and Wollstonecraft.
- EN350 Special Topics in English 3.0 Credits**
A seminar on a subject chosen by instructor.
- EN354 American Poetry 3.0 Credits**
An overview of American poetry with attention to such periods and movements as Romanticism, Modernism, Harlem Renaissance, Beat, Feminist, Language, and Spoken Word, and in-depth reading of such poets as Longfellow, Whitman, Dickinson, Frost, Stevens, Millay, Hughes, Plath, Ashbery, and Dove.
- EN355 Modern and Contemporary Fiction 3.0 Credits**
This course will examine modern and contemporary works from such authors as Wharton, Dreiser, Lewis, Hemingway, Faulkner, Baldwin, Morrison, Adiche, and Walker.
- EN357 How to Write a Blog 3.0 Credits**
In this workshop course, students will create and polish their distinct, clear, sharp, and engaging blog-writing skills in order to position themselves as rhetorically sound and to gain and keep an audience.
- EN358 Northern New England Review 3.0 Credits**
Students in this course serve as an editorial and production team for Northern New England Review, working closely with the professor, the Editor. Along with the members of the student project team, students will have applied-learning experiences in the areas of text preparation, manuscript editorial, layout design, printing & binding (via FPU's onsite printer), professional writing, social media management, and marketing work related to producing a literary journal of new writing by artists from northern New England region. Students will also engage in discussions about the history, theory, and professional practice of publishing.
- EN359 Nevermore 3.0 Credits**
Students in this course serve as editors and/or editorial board members producing the FPU student literary journal Nevermore. Working closely with the professor and classmates, students call for submissions, review submissions, accept/reject and alert authors re: submissions, edit, perform layout design, printing, and binding. This course prepares students for work in producing/publishing literary journals and work in a professional publishing venue.

- EN391 Internship in English 0.0 Credits**
 Internship in English (1-6 credits). A significant learning experience undertaken and arranged in consultation with a major advisor. Prerequisite: permission of English major advisor.
- EN399 Independent Study in English 0.0 Credits**
 Independent Study in English (1-6 credits). Offers the opportunity to explore an area of study not listed in the catalog. The topic should be jointly selected and carefully designed by the student and faculty sponsor, and be approved by the Dean or their designee. With rare exceptions, the student must have a cumulative grade point average of 3.00. A "Proposal for Independent Study" form may be obtained from the Registrar's website. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.
- EN417 Advanced Fiction Workshop 3.0 Credits**
 Advances the skills learned in EN235 and adds the skills for preparing a manuscript for submission to a publisher.
- EN421 Advanced Poetry Workshop 3.0 Credits**
 A course in techniques including poetic forms, meter and free verse. Readings selected for their relevance to writing poetry.
- EN450 Special Topics in English 3.0 Credits**
 A seminar on a subject chosen by instructor.
- EN485 English Sr Assessment Seminar 2.0 Credits**
 Provides students majoring in English the opportunity to accomplish three tasks designed to help them meaningfully conclude their studies and prepare to move forward into life beyond college. These include: review of past work within major and general education, preparation for completion of the competency exam in English, and broad reflection on the place of language and literature, literary study and literary creation, in their own lives and the life of the world around them. Prerequisite: senior standing or permission of instructor.
- EN491 Senior Internship 0.0 Credits**
 Senior Internship (1-6 credits). A significant learning experience undertaken and arranged in consultation with a major advisor. Prerequisite: permission of English major advisor.
- EN492 English Research & Writing Seminar 3.0 Credits**
 Required of all English majors. The seminar will be oriented around a particular literary figure or figures, topics, or genres.
- GLE110 First Year Composition I 3.0 Credits**
 First Year Composition I is the first in a series of two courses for those who must excel in reading and writing at the college-level. The central question is, "How well does the writing respond to the needs of audience(s)?" Students will learn to attend to the context and purpose for the writing and select credible, relevant sources to develop ideas as well as refine the ability to analyze and comprehend texts. Addresses GLE Learning Outcomes Critical Reading (CR) and Written Communication (WC). Some sections of GLE 110 are designated as T-sections, Composition I Tutorial, designed to give students the support they need to succeed in GLE 110 and move on to succeed in GLE 120, Composition II. GLE110 T-sections include 3 hours of class time, MWF. Attendance at one tutoring session with the class-linked tutor four times during the semester is required. All writing projects, consisting of at least three drafts, will also include direct instruction on vocabulary and grammar for each of the 4-5 class papers.
- GLE120 First Year Composition II 3.0 Credits**
 First Year Composition II is the second in a series of two courses for those who must excel in presenting error-free writing at the college-level. Building on the central question for FYC I, "How well does the writing respond to the needs of audience(s)?" students will further develop their ability to attend to the context and purpose for the writing and select credible, relevant sources and evidence. Students will also learn disciplinary conventions and refine proofreading skills. In addition, students will master the basics of presentations: the central message and organization and use of supporting materials. Addresses GLE Learning Outcomes Written Communication (WC) and Oral Communication (OC). Prerequisite: C or better in GLE110.
- GLE203 America and 9/11 3.0 Credits**
 An exploration of the American experience of the terror attacks of Sept. 11, 2001 and their aftermath. Students will be invited to achieve an informed, critical understanding of the nature of the event, its impacts on American life and culture, and individual and collective responses to it, around such themes as grief and rage, security and justice, encounter with the Other, healing and transformation. Addresses GLE learning Outcomes Humanities (HM), Critical Thinking (CT), and Intercultural Knowledge (IK).

HS132 Reel History: Amer Stories on Film 3.0 Credits
How is history portrayed on film? How do Hollywood blockbusters, cult favorites and thought- provoking documentaries represent historical episodes and events? In this course, modern American history is explored through the media of film. Using constructions of race, class, gender, and sexuality, we examine cinematic depictions of topics such as slavery, the World Wars, the Counterculture, women's rights and recent history through the fascinating world of film. Addresses GLE Learning Outcomes Humanities (HM), and Intercultural Knowledge (IK).

HS199 Independent Study in History 0.0 Credits
Independent Study in History (1-3 credits). Offers an opportunity to explore an area of study not included in the Catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or their designee

HS200 Who's Who in American History 3.0 Credits
This course takes a biographical approach to topics of power and influence in American history. Students will study leaders in activism/ reform, politics, business, the military, popular culture and other spheres, to reveal constructions of power and diverse forms of national influence. From presidents to crusading change-agents, focuses could include President George Washington, Dolley Madison, Frederick Douglass, Sitting Bull, Chief Joseph, Ida Tarbell, J. Edgar Hoover, FDR, Marilyn Monroe, Malcolm X, Jackie Kennedy or Jay Z. As students explore the mystique of these historical game-changers, they will enhance their understanding of how power works to shape a nation, and who really is who in American history. Addresses GLE Learning Outcomes Humanities (HM), Critical Reading (CR), Intercultural Awareness (IK).

HS201 US History to the War of 1812 3.0 Credits
A survey of the political and social development of the United States from colonial origins to the second war for independence against Great Britain. Topics include Puritan Massachusetts, relations with Native Americans, origins of slavery, independence and the Constitution, and the early Republic. Addresses GLE Learning Outcomes Humanities (HM), Critical Reading (CR), and Written Communication (WC).).

HS202 American History Slavery/Civil War 3.0 Credits
An examination of the critical period from 1815 to the end of Reconstruction in 1877. Topics include early industrialization, Jacksonian politics, slavery and abolition, women's rights movement, territorial expansion, Civil War, and the Reconstruction of the South. Addresses GLE Learning Outcomes Humanities (HM), Critical Reading (CR), and Written Communication (WC).

HS203 War & Peace: America 1877-1945 3.0 Credits
During the period from the end of Reconstruction through World War II the United States became an urbanized, industrialized nation and a global power. To understand this transformation, the course will examine the experience of African Americans in the South and Native Americans in the West, the struggles between labor and capital, the Progressive responses to industrial America, and the experience of women and immigrants. The paramount importance of World War I, the Great Depression, and World War II will also be explored along with the dynamic social and cultural impulses that marked the first half of the twentieth century.

HS204 U.S. History Since 1945 3.0 Credits
Contemporary history of the United States. Particular attention will be paid to national politics (Truman to Nixon to Reagan), the Cold War and its domestic impact, along with movements to extend rights to women and minorities. Addresses GLE Learning Outcomes Humanities (HM), Critical Reading (CR), and Written Communication (WC).

HS206 Protest in America 3.0 Credits
Exploration of popular protest movements from Colonial times to the present, including episodes of resistance against established legal, political and cultural codes and practices, and movements seeking social change and justice. Examples of cases include Revolutionary-era rebellion, Civil Rights movements, Abolitionism, women's equality campaigns, antiwar protests, Native American rights struggles, gay rights, and labor-activism conflicts. The evolution of public demonstrations from radical roots to mainstream assimilation will also be addressed. Students gain understanding of tensions between enshrined rights and their controversial interpretations, and explore the cultural, political and legal contexts of popular protest movements. They also gain perspectives on protest movements we witness today.

HS210 Sports Cultures & American History 3.0 Credits
Sports offer a unique and multi-hued window into American society, culture and history. In this course, we will survey the development of sports cultures in the US since 1850, examining issues and case studies on topics such as gambling, professionalism, and exploitation. Addresses GLE Learning Outcomes Humanities (HM), Critical Reading (CR), Ethical Reasoning (ER), and Written Communication (WC).

HS214 Popular History Today 3.0 Credits

This course acquaints students with the field of public history. The course will examine the various ways in which stories of the past are presented to the general public—for the benefit of the citizenry and in a public venue. It is especially useful for students considering careers in public service, historical museums, historic sites, historical societies, archives, historic preservation, digital history, and filmmaking. By gaining a familiarity with the professional standards and skills applicable in field, the course will also assist students seeking professional internships.

HS222 Gods & Gladiators: Anc. Greece/Rome 3.0 Credits

This course examines the history of Ancient Greece and Rome from 900 B.C.E. to the transformation of the Roman Empire in the fifth century C.E. We will explore the ways ancient Greeks and Romans lived and how they thought about themselves, their relations with one another, the gods, and the state. During these centuries Greece and Rome underwent a series of profound social, cultural, economic, and political changes as they made the transition from localized communities to global empires. To better understand this transition, the course will focus on several major topics, including the Greek city-state, Classical Greece, the rise of Macedonia and Alexander the Great, the Hellenistic world, the Roman Republic, and the Roman Empire. While charting larger historical developments, we will also examine everyday life in Western history and the central roles of religion and war. GLE Learning Outcomes Humanities (HM), Written Communication (WC), and Intercultural Knowledge (IK).

HS223 Knight/Shining Armor: Middle Ages 3.0 Credits

This course examines selected themes in European history from the early Middle Ages (600s) through the crisis of late medieval society (1400s). During this period Europe underwent a series of profound social, cultural, economic, and political changes as it made the transition from late Antiquity to the early Renaissance. To better understand this transition, the course will focus on several major topics, including Charlemagne and the Carolingian Empire, England and the emergence of the medieval state, the Crusades, the Hundred Years' War, and the Black Death. While charting larger historical developments, we will also examine everyday life in Western history and the central roles of religion and war.

HS224 Renaissance to Napoleon 3.0 Credits

This course examines the history of Europe from the waning days of the Middle Ages through the early nineteenth century. During this period Europe underwent a series of profound changes as it made the transition from the medieval period to the modern era. To understand these changes, the course will focus on several major topics, including the Renaissance, the Reformation and Counter-Reformation, absolutism, the Enlightenment, the French Revolution, European expansion, global warfare, and the emergence of the modern nation-state. Addresses GLE Outcomes Humanities (HM), Written Communication (WC), and Intercultural Knowledge (IK).

HS228 Witches: Witch Hunts/Early Mod Hist 3.0 Credits

This course introduces Early Modern Transatlantic history through the lens of witch-hunts. Witchcraft persecutions and trials on both sides of the Atlantic are explored within evolving civic, cultural, religious, political, popular and folkloric and legal spheres. Topics include a series of witch-hunts from Scotland to New England, cunning folk, wise women, Malleus Maleficarum, Witches' Sabbath and others, addressed within contemporary gender, class, and property-ownership norms and Early Modern European and Colonial American historical progressions. Students learn how targeting and punishing those accused of witchcraft shaped cultural attitudes and biases, some of which endure to this day. Addresses GLE Outcomes Humanities (HM), Written Communication (WC), and Intercultural Knowledge (IK).

HS229 Thrones/Drones: Mod European Hist 3.0 Credits

Political, social, economic, and military developments in Europe since 1815. Topics range from the settlement of 1815, subsequent Great Power rivalries, the Industrial Revolution, the World Wars, Fascism, Communism and the development of the European Union (EU).

HS235 Topics in World History 3.0 Credits

Study of a historical topic in World history chosen by the professor.

HS240 American Environmental History 3.0 Credits

How have Americans altered the world around them and what have been the consequences of those alterations? This course explores the changing relationship between human beings and the natural world in the United States from the colonial to the present with an emphasis on modern America. Major themes include industrialization and urbanization, public health, conservation, the environmental movement, environmental justice, and ecofeminism. Addresses GLE Learning Outcomes Humanities (HM), Written Communication (WC), and Intercultural Knowledge (IK).

HS246 Multimedia History 3.0 Credits
In this course, students use digital-literacy tools and platforms to engage in and deliver historical content in exciting new ways. and digital material by academic and popular historians, public-history leaders and social-media influencers guide students in new modes of historical documentation and presentation, with attention to purpose, bias, and data-usage. Students create applied historical knowledge using cloud-based, digital-timeline/mapping, virtual tours, audio and screencast-based tools, and other platforms. Incorporating experiment, inquiry and time for play, students train digital lenses on episodes from the past and historic sites. In the process, they build valuable digital-literacy skills and personal agency as creators of historical content.

HS275 History Workshop 3.0 Credits
In this course, students study the foundations, principles and techniques of historical research and apply them in creating their own history projects. From the idea stage to final presentation, students explore, research, write, collaborate and present on a topic of their choosing, using appropriate traditional and digital platforms. The course affords students immersive experience with historical topics in imaginative and creative ways

HS299 Independent Study in History 0.0 Credits
Independent Study in History (1-3 credits). Offers an opportunity to explore an area of study not included in the Catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or their designee.

HS308 Sea to Shining Sea: US Geography 3.0 Credits
What are the forces that have shaped the geography of the United States and North America? Beginning with the physical environment of North America and Native American geography during the era of the European invasions, we will explore the spatial dimensions of the major processes that have shaped the United States and North America since the 1600s: European colonization and resettlement, demography and migration, agriculture, industrialization, urbanization, and the expansion of transportation systems. Additional topics include race and ethnicity, gender, consumerism, cultural and economic systems, and the environment.

HS310 Oral History 3.0 Credits
This course offers students an introduction to both long-standing standards and practices in oral history, and innovations resulting from technological change. Through the examination of case studies, the course also allows students to explore the various ways oral testimony can be used in traditional academic historical interpretations, as well as a wide variety of public history enterprises, including community and local projects, institutional projects, television, radio, film, and museums.

HS313 The Civil War 3.0 Credits
This course explores a seminal period in American history from the sectional crisis of the 1850s to the end of Reconstruction in 1877. The Civil War lasted four years, 1861 to 1865, and it contributed to debates about nationalism, citizenship, the morality of violence, and the power and expanse of the federal government. The crisis of disunion resulted in a devastating war that saw death on a monumental scale, millions displaced, and the emancipation of four million enslaved Americans. The conflict also initiated profound transformations in American society and culture. The legacy of the Civil War continues to reverberate today in American history and memory.

HS314 Lady Liberty: Am. Immigrant History 3.0 Credits
America has been described as a nation of immigrants, and connections between immigrant settlement and national identity have long endured. These themes are examined in this course, including the centuries of immigrant waves, conflicts over ethnic acceptability, restriction, and exclusion, the rise and durability of nativist hostilities, and major political actions taken to regulate immigrant arrival. Controversial topics of ethnic-identity, border-control, immigrant humanitarian crises, migrant-work, and the continued politicization of immigration illuminate a historical theme with enduring impact today.

HS319 History of New England 3.0 Credits
This course explores the regional history of New England from the early modern era (1600s) through the twenty-first century. We will examine Native American history and culture, the Pilgrim and Puritan migrations, the role of New England in the American Revolution, industrialization in the nineteenth century, deindustrialization, and the modern evolution of the region. We will strive to connect the local with the regional and the regional with national and international events and developments. The course will consider issues of religion, race, class, gender, economics, and politics to explore the dynamics of New England's variegated past.

HS320 African-American History 3.0 Credits
This course explores the history of African Americans from the colonial era (1600s) through the twenty-first century. Following the European colonization of North America and the enslavement and forced transportation of Africans across the Atlantic, Africans and their American-born descendants encountered a host of challenges in their quest to create homes, families, and vibrant cultures. We

will explore this centuries-long journey of African Americans to create spaces and places of belonging as they also sought freedom and justice and a seat at the table. The course will consider issues of religion, race, class, gender, culture, economics, and politics to explore the many dimensions of the African American experience in the United States.

HS322 American Gender History

3.0 Credits

Gender identity plays a role in how women and men negotiate their everyday lives, and in how meanings of femininity and masculinity have changed over time. This course explores American gendered historical experiences from the era of the North American colonies onward. Focuses on gender according to class, race, and sexual preference. From witchcraft to suffrage and revolution to LGBTQI+ identities today, this course explores gender identity in the American historical record.

HS323 Big Idea: Am. Intellectual History

3.0 Credits

This course introduces students to great thinkers, powerful intellectual developments, progress in industry, government, education, the arts, and intellectual forces that have shaped the U.S. since its inception and constructed its national identity. The Great American Experiment will be probed from multiple perspectives, and student projects will explore aspects of American national identity based on one or more of its formative Big Ideas. The course will be useful for students considering careers in public service, cultural institutions, education, law, and non-profits.

HS329 The National Parks

3.0 Credits

This course acquaints students with the history of national parks in the United States and opportunities for employment in the National Park Service. Students will gain familiarity with cultural and natural resource management in the national parks. Students will also explore the various challenges and opportunities in the National Park Service—ideally preparing them for an internship at an NPS site.

HS337 Nazi Germany

3.0 Credits

In-depth study of Hitler's rise to power, 1919–1933, and the totalitarian dictatorship established by the Nazi Party, 1933–1945. Role of ideology; use of terror and the secret police; control of economic and social life; propaganda and the manipulation of culture and art; racial policies and the Holocaust; military aggression and World War II.

HS340 Ireland Since 1500

3.0 Credits

Students will become immersed in the Gaelic medieval world, the evolving relationship with England, native Irish culture and arts, the Irish language, the foundations of the present Republic, and the search for an end to long-established political divisions. Explores the popularity of Irish arts and literature in the later twentieth century.

HS341 American Women's History

3.0 Credits

The idea of equal rights for all is familiar today, but legal, cultural, political and economic restrictions separated women from men for much of America's historical course. This course examines women as Americans who could not achieve full citizenship, and for whom the idea of "rights" proved long in coming. We explore how these ideas moved from the margins through 19th century private worlds, abolitionism, suffrage, wartime involvement, Women's Lib campaigns, and ME Too activism; to understand why the voices of half the population were hushed and why the goal of equal rights is still not historical.

HS375 Topics in History: US

3.0 Credits

Study of an American historical topic chosen by the professor.

HS376 Topics in History: European

3.0 Credits

Study of an historical topic in European/World History chosen by the professor. .

HS377 Topics in Public History

3.0 Credits

This course introduces students to a specialized field in public history chosen by the professor. Students will explore the various challenges and opportunities in the specialized field, thereby preparing them for a public history internship. Possible topics include: Archival Methods, Historic Preservation, History and the World Wide Web, and Public History and Museums.

HS395 Internship in Public History

0.0 Credits

Internship in Public History (3-6 credits). A public history internship carrying variable credit depending on the length and the professional responsibilities of the experience. The credit value is determined at the time of registration and placement with completion of the standard internship contract. Prerequisite: recommendation of History Faculty.

HS396 Independent Study in Public History 3.0 Credits
Offers an opportunity for students to explore an area of study not included in the Catalog listing of approved courses. The topic of the Independent Study should be selected and carefully designed by the student and the faculty sponsor, and must meet the approval of the College Dean.. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. Independent Study courses are assigned the number of 396 or 496 depending on the level of the course.

HS399 Independent Study in History 0.0 Credits
Independent Study in History (1-3 credits). Offers an opportunity to explore an area of study not included in the Catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or their designee.

HS410 History Research Seminar 3.0 Credits
Required of all History majors. The seminar will be oriented around a broad topic chosen by the professor and fitted to the research needs of students in the History major concentrations. Prerequisite: limited to Junior and Senior History majors.

HS450 History Senior Portfolio Assessment 1.0 Credit
Students will complete and present their History major portfolio for evaluation by the faculty. Required of all History majors. Prerequisite: Senior History major standing.

HS491 Field-Based Experience History 0.0 Credits
Field-Based Experience in History (3-6 credits). An internship carrying variable credit depending on the length and intensity of the experience. The credit value is determined at the time of registration and placement, and the execution of contract. Prerequisite: recommendation of History Faculty.

HS495 Internship in Public History 0.0 Credits
Internship in Public History (3-6 credits). A public history internship carrying variable credit depending on the length and the professional responsibilities of the experience. The credit value is determined at the time of registration and placement with completion of the standard internship contract. Prerequisite: recommendation of History Faculty.

HS496 Independent Study in Public History 3.0 Credits
Offers an opportunity for students to explore an area of study not included in the Catalog listing of approved courses. The topic of the Independent Study should be selected and carefully designed by the student and the faculty sponsor, and must meet the approval of the College Dean. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. Independent Study courses are assigned the number of 396 or 496 depending on the level of the course.

HS499 Independent Study in History 0.0 Credits
Offers an opportunity to explore an area of study not included in the Catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the College Dean or their designee.

LS101 Elementary Spanish I 3.0 Credits
Basic oral and written proficiency for daily communication, with an emphasis on the audiovisual method.

LS102 Elementary Spanish II 3.0 Credits
Basic oral and written proficiency for daily communication, with an emphasis on the audiovisual method.

LS105 Language for Travelers 3.0 Credits
Offered in association with any number of Franklin Pierce University international studies courses or programs. Covers practical communication skills in the applicable language(s) and associated cultural characteristics. Addresses GLE Learning Outcomes Humanities (HM) and Intercultural Knowledge (IK).

LS199 Independent Study in Spanish 0.0 Credits
Prerequisites: LS301, senior standing and permission of instructor.

- LS201 Intermediate Spanish I 3.0 Credits**
Conversational patterns, idioms, dialogues, and special vocabularies for travel and occupations. Prerequisite: LS102 or permission of the instructor.
- LS202 Intermediate Spanish II 3.0 Credits**
Conversational patterns, idioms, dialogues, and special vocabularies for travel and occupations. Prerequisite: LS102 or permission of the instructor.
- LS301 Advanced Spanish Conv & Comp 3.0 Credits**
For students who have passed the intermediate level, with intensive drills in conversation and composition in order to achieve a mastery of correct oral and written expression in Spanish. Prerequisite: LS202.
- LS311 Spanish Culture & Civilization 3.0 Credits**
A comprehensive survey of Spanish culture and civilization; Prerequisite: LS301 or permission of the instructor.
- LS312 Spanish Amer Culture & Civilization 3.0 Credits**
A comprehensive survey of Spanish-American culture and civilization; Prerequisite: LS301 or permission of the instructor.
- LS399 Independent Study in Spanish 0.0 Credits**
Prerequisites: LS301, senior standing and permission of instructor.
- LS565 Spanish Healthcare Professionals 2.0 Credits**
This elective course is designed for health care providers and students who want to improve communication skills with Spanish-speaking patients and their caregivers by developing sufficient speaking and listening skills to perform physical therapy, nursing or medical assessments and procedures. The course will focus on building vocabulary skills, and communication for discipline specific assessment procedures. Prerequisites: Successful completion of all prior Physical Therapy courses.
- PA101 Introduction To Philosophy 3.0 Credits**
Philosophy (the love of wisdom) is the systematic examination of essential questions. The course examines the following questions: What is Philosophy? What is real (Metaphysics)? How do we know (Epistemology)? What ought we to do (Ethics)? These questions are critically examined in the light of their formulation by influential thinkers and their relevance to contemporary issues. Addresses GLE Learning Outcomes Humanities (HM), Critical Reading (CR) and Critical Thinking (CT).
- PA105 The Art Of Thinking 3.0 Credits**
We take thinking for granted. We all think all the time, and, in general, we like the results of our thinking. We usually do not what to let others do our thinking for us. And yet, other people, organizations, advertisements, etc., are always trying to influence our thinking, telling us what to believe, who to vote for, what to purchase. Indeed, as a university student, you are currently actively engaged in the pursuit of knowledge, and the pursuit of knowledge is nothing more than figuring out what to think. This course will provide explanations and practices for developing our thinking skills - what is called critical thinking and logic - in ways that will be directly relevant to the course work you are currently taking and the world you are currently living in. Addresses GLE Learning Outcomes Humanities, Applied Learning, Critical Thinking and Teamwork.
- PA209 Ethical Reasoning 3.0 Credits**
This course seeks to deepen student engagement with ethical reasoning while developing skills in value identification and formation by providing critical engagement with ethical theory and critical analysis of contemporary ethical problems. Theories to be considered include Kantianism, Utilitarianism and Virtue Ethics. Topics to be considered included punishment, violence, justice, and the environment. Addresses GLE Learning Outcomes Humanities (HM), Critical Reading (CR), Critical Thinking (CT), and Ethical Reasoning (ER). Prerequisite: Sophomore status.
- PA210 Political Theory 3.0 Credits**
Major political philosophical systems with emphasis on the relationship of theory to practice in historical context. Important theories, such as the concept of natural law, traced from the Stoics to Karl Marx and beyond. Intensive review of other modern political concepts and experiments. Addresses GLE Learning Outcomes Humanities (HM), Critical Reading (CR) and Ethical Reasoning (ER).

PA211 Ancient Philosophy 3.0 Credits

A survey of Greek philosophy from Thales to Aristotle. Beginning with the natural philosophy of the pre-Socratics, the course moves through the idealism of Socrates and Plato, to the broad concerns, material and ideal, of Aristotle. Prerequisite: PA101 or permission of instructor.

PA214 Modern Philosophy 3.0 Credits

This course covers the philosophical developments of the 17th and 18th centuries, a time when our modern ideas of science, individuality, and democracy began to take shape. We will focus primarily on the epistemological question “How do we know what we know?” but will also give attention to the moral question “How ought we to act?” By the end of this course students will have a better understanding of the conceptual origins of the contemporary world. Prerequisite: PA101 or permission of instructor.

PA216 19th and 20th Century Philosophy 3.0 Credits

This course covers recent and contemporary philosophical movements as well as their roots in 19th century thought. Readings and discussions will center on the existentialism of Sartre and Heidegger, the pragmatism of William James and John Dewey, the linguistic philosophy of Ayer and Wittgenstein, and on such recent developments as phenomenology and deconstruction. Prerequisite: PA101 or permission of instructor.

PA225 Deliberative Ethics: A Living Code 3.0 Credits

Learn how to use deliberation to address challenges in professional and public life. Particular attention will be paid to issues related to ethical dilemmas in business, education, and health studies. Although the focus is on contemporary America, the course will include the historical development of deliberative democracy in the United States, from the limited rights of 18th century social contract as understood first by the nation’s founders to nineteenth century suffrage movements to the impacts of multiculturalism and globalism. Addresses GLE Learning Outcomes Humanities (HM), Civic Knowledge & Engagement (CE), Ethical Reasoning (ER), and Problem Solving (PS). Prerequisites: GLE110 and GLE 120 or permission of the instructor.

PA250 World Religions 3.0 Credits

This course is an introduction to the major religions of the world. Religions study will include: Confucianism, Hinduism, Buddhism, Christianity, Islam, and Judaism as well as Zoroastrianism, Sikhism, Jainism and Taoism. Similarities and differences will be investigated as will the role of religion in history and its influence on the contemporary world.

PA260 Mythology 3.0 Credits

An examination of myths and mythology as a philosophical and literary expression as well as an essential feature of significant religious and theological historical developments. Through primary and secondary sources, this course examines classical myths as they originate in Mesopotamian, Egyptian, Hebraic, Greek and Roman traditions.

PA300 Philosophy Portfolio 1.0 Credit

This course provides the opportunity for students to reflect upon their experience with the Philosophy Curriculum of Franklin Pierce and to assess how well they have met the desired learning outcomes identified by the program. Students will compile appropriate artifacts - usually but not limited to course papers - as evidence that they have met the stated program goals. They will also write a rationale statement, explaining how each artifact meets each standard, and how successfully the student thinks it does so. Portfolio and rationale statement will be presented in class to be evaluated by faculty member and fellow philosophy students. Open to juniors or seniors who have completed or are in the process of completing their 300-level seminar. Required of all Philosophy students for completion of the program.

PA302 Seminar:Philosophical Topic 3.0 Credits

This seminar will concentrate on one of the perennial themes dealt with by the philosophical tradition. Possible topics include the question of free will, the nature of truth, the nature of goodness, the tradition of existentialism, and the tradition of pragmatism. Prerequisite: PA101 or permission of instructor.

PA304 Seminar On Philosophical Thinker 3.0 Credits

This seminar will concentrate on the work of one of the great figures of the Western Philosophical tradition such as Plato, Aristotle, Hume, Kant, Hegel and Kierkegaard. The course will be organized around careful reading of the author’s major works, and will include important secondary literature as well. Prerequisite: PA101 or permission of instructor.

- PA306** **Philosophy Of Science & Nature** **3.0 Credits**
Investigates the human relationship with nature: how humans define nature and how they interact with it. Examines the history of scientific understanding of this relationship, the ethical issues raised by this understanding, and a critical examination of new paradigms that might better explain this relationship (or not).
- PA499** **Independent Study In Philosophy** **3.0 Credits**
An Independent Study in Philosophy is offered exclusively to students pursuing an approved Self-Designed Major in Philosophy, and is offered to fulfill the culminating work required of the major. The topic and method of the Independent Study will be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or their designee. This topic should be of particular concern to the student, and should represent some question arising out of his or her philosophical studies to that point. Format will generally follow the model of a "Senior Thesis," wherein students will meet regularly with a faculty advisor to discuss readings and work in pursuit of the proposed thesis which, when completed, will be defended orally. A "Proposal for Independent Study" form must be filled out, submitted and approved.
- PO110** **Political Violence** **3.0 Credits**
Political violence occurs in a variety of forms, ranging from organized masses engaged in state-sponsored conflict (i.e., war) to a lone assassin's bullet striking down a national leader. This course examines both of these forms and more. Attention is also given to the following question: Is there any moral justification for the use of violence in pursuit of a political goal? Addresses GLE Learning Outcomes Humanities, Critical Thinking and Written Communication.
- PO111** **Politics In Popular Culture** **3.0 Credits**
An investigation into the interactions between politics and popular culture in American society. Particular attention will be given to the role of the mass media and the popular arts in the political system. The objective is to draw important political lessons from questions about these relationships between culture and politics. Addresses GLE Learning Outcomes Humanities (HM), Ethical Reasoning (ER) and Intercultural Knowledge (IK).
- PO200** **Research Methods/Political Science** **3.0 Credits**
Deals with the application of quantitative and qualitative research methods to the study of political science. Students will learn how to formulate, operationalize, test, and evaluate empirical hypotheses regarding everyday political phenomena.
- PO201** **U.S. Government** **3.0 Credits**
Examines the institutions, participants, and processes that characterize political activity in the United States. Focus is not only on the contemporary nature of American government but also on the original design of the Framers and how it has been implemented over time. Addresses GLE Learning Outcomes: Civic Knowledge and Engagement, Inquiry & Analysis, Information Literacy and Social Science
- PO205** **International Relations** **3.0 Credits**
Examines the actors, institutions, and processes that have shaped the political, military, economic, and social life of the planet in the post-World War II era. Particular attention is given to the role of the nation-state and the challenges to it posed by a variety of non-state actors. Major world issues such as overpopulation and ethnic conflict are explored in order to demonstrate that the complexities surrounding these phenomena make their solution problematic within the current global framework. Addresses GLE Learning Outcomes: Social Science (SS), Critical Thinking (CT) and Critical Reading (CR).
- PO206** **Comparative Politics** **3.0 Credits**
A survey of major governmental systems in various geographic regions of the world, with emphasis on ideology, structure, and political behavior as they characterize these forms of government. Addresses GLE Learning Outcomes; Social Science (SS), Critical Thinking (CT) and Inquiry and Analysis (IA)
- PO321** **Constitutional Law and Moot Court** **3.0 Credits**
Inquiry and analysis into the development of constitutional principles, judicial law, and jurisprudence around controversies arising from the separation of powers, federalism, civil liberties, civil rights and criminal procedure. Close attention is given to the court as a political institution that influences public policy. The course concludes with students preparing for and participating in a moot court, where they will be lawyers trying or justices hearing a Supreme Court case. Prerequisite: any PO class or Second Semester Freshman Status. Fall semester.

PO322 Campaign, Election & Policy Process 3.0 Credits

Inquiry and analysis into the operation of federal campaigns and elections; into the forces driving public and foreign policymaking; into the interactions between the electoral and policymaking processes; and into public opinion as cause and effect in both processes. All students participate in a practicum on election campaign strategy or on public/foreign policy decision making. In presidential election years, the practicum focuses on the New Hampshire Primary. Prerequisite: any PO class or Second Semester Freshman Status. Fall semester.

PO330 Global Security and Diplomacy 3.0 Credits

Inquiry and geopolitical analysis into security threats arising from state and non-state actors pursuing their interests; into foreign policy approaches to address such threats; and into forms of hard and soft power exercised by actors in the international system. Hard power dimensions covered: military force, weapons of mass destruction, terrorist activity, cyberattacks, intelligence capabilities, economic sanctions. Soft power dimensions covered: diplomacy, international law, ideology and religion. The course concludes with students preparing diplomatic dossiers on a security or conflict issue and assuming the role of diplomats in a mock meeting of an intergovernmental organization (e.g., the UN, NATO, etc.). Prerequisite: any PO class or Second Semester Freshman Status. Spring semester.

PO331 Prosperity and Freedom in the World 3.0 Credits

Inquiry and comparative analysis into forces driving nations to be ruled by democratic or authoritarian rule and into factors determining the degree to which nations are wealthy or impoverished. The social impacts of regime type, ethnic/sectarian divisions, and economic conditions are examined as well. The course concludes with students acting as policy advisors (to a government or intergovernmental organization) on the subject of a human rights concern or economic development problem facing a particular nation or geographic region. Prerequisite: any PO class or Second Semester Freshman Status. Spring semester.

PO410 Sr Research Sem in Political Sci 3.0 Credits

Required of all Political Science majors. The seminar will be oriented around a broad topic chosen by the professor and fitted to the research needs of students in Political Science subdisciplines. Prerequisite: limited to senior Political Science majors.

PO491 Field-Based Exp - Political Science 0.0 Credits

Field-Based Experience in Political Science (1-9 credits). An internship designed to facilitate applied learning of political science. Goals and objectives are contracted prior to registration and designed to complement or directly relate to political science course work and student interests. The 1 credit required field-based experience course for the major consists of a minimum of 40 hours in a semester which includes on-the-job work and documentation procedures. This internship can be done in conjunction with the Fitzwater Center participating in Tuesday Briefings, Politics FitzU, or election polling and coverage, or an outside entity with approval of Political Science faculty. Prerequisite: recommendation of Political Science Faculty. May be repeated for elective credit.

PO499 Independent Study In Political Sci 0.0 Credits

Independent Study in Political Science (1-6 credits). Offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar's website. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

ID

ID001 Intern/Indep/DS Pending 3.0 Credits

A placeholder course (ID 001) for all individualized courses of study (internship, independent study, or directed study). Students register for ID001 during their designated registration time. The appropriate paperwork must be completed, approved, and submitted by the last day of the add/drop period of the term/semester in which the course is to take place.

ID291 Interdisciplinary Internship 0.0 Credits

This course is for students pursuing an internship opportunity outside of the student's major program. Internship level to be determined by student class standing and level of responsibility expected by internship. Credit hours to be determined by amount of hours required by internship, with a general guide being 45 hours of work equals 1 credit. The standard Internship Contract will have to be completed, submitted, and approved. Prerequisite: Sophomore standing

ID391 Interdisciplinary Internship**0.0 Credits**

Interdisciplinary Internship 1-12 credits. This course is for students pursuing an internship opportunity outside of the student's major program. Internship level to be determined by student class standing and level of responsibility expected by internship. Credit hours to be determined by amount of hours required by internship, with a general guide being 45 hours of work equals 1 credit. The standard Internship Contract will have to be completed, submitted, and approved. Prerequisite: Sophomore standing

ID491 Interdisciplinary Internship**0.0 Credits**

This course is for students pursuing an internship opportunity outside of the student's major program. Internship level to be determined by student class standing and level of responsibility expected by internship. Credit hours to be determined by amount of hours required by internship, with a general guide being 45 hours of work equals 1 credit. The standard Internship Contract will have to be completed, submitted, and approved. Prerequisite: Sophomore standing

NH**CH203L Forensic Chemistry Lecture****0.0 Credits**

An introductory course in Forensic Chemistry. Students are introduced to the most common types of physical evidence and the scientific methods and techniques used to examine and analyze such evidence. Topics covered in this course include (but are not limited to) fingerprint analysis, analysis of hairs, fibers and paint, toxicology, serology, DNA profiling and arson investigation. In the laboratory, students will be acquainted with basic forensic laboratory techniques for the analysis of the types of physical evidence discussed in lecture.

PTH539A Musculoskeletal System III – Spine**4.0 Credits**

This course is a primary course in the physical therapy management of patient/client with musculoskeletal conditions. The course of study includes the processes of examination, evaluation, diagnosis, prognosis, intervention, and outcomes as they relate to patients/clients with musculoskeletal conditions relating to the spine. Students apply the principles and techniques of therapeutic exercise to various orthopedic disorders. Prerequisite: Successful completion of all prior Physical Therapy courses.

NS**AN102 Human Origins Lab****4.0 Credits**

Investigates the processes by which humans have evolved biologically by the examination of the fossil record over the course of five million years. Addresses GLE Learning Outcomes Natural Sciences, Critical Thinking and Inquiry & Analysis

AN102L Human Origins Lecture**0.0 Credits**

Investigates the processes by which humans have evolved biologically by the examination of the fossil record over the course of five million years. Addresses GLE Learning Outcomes Natural Sciences, Critical Thinking and Inquiry & Analysis

AN201 App Anthro/Ethnog Methods**3.0 Credits**

An introduction to the field of applied anthropology which is characterized by problem-oriented research among the world's contemporary populations. Students will participate in a semester-long experiential field work project and will utilize ethnographic methods, analyze readings and case studies.

AN220 Global Problems**3.0 Credits**

Examines social, political, environmental, and economic issues within historical and cultural contexts. Focus will be on Asian, Latin American, and Islamic societies.

AN311 Museum Studies**3.0 Credits**

Examines the science and history of museums, their diversity and their role in contemporary society. Techniques in museum display, curation and preservation will also be covered.

AN482 Anthropology Theory & Ethics**3.0 Credits**

Examines the discipline of Anthropology from the perspective of disciplinary theory and ethics. Anthropological Code of Ethics reviewed. Prerequisite: Anthropology majors of junior or senior standing.

AN485 Anthropology Portfolio Review

1.0 Credit

Independent program of Anthropology portfolio review and study, culminating in an oral presentation of portfolio to the full-time permanent Anthropology faculty.

AN490 Senior Thesis in Anthropology

3.0 Credits

Researches an original topic selected by the student and approved by the advisor. The student must do a review of the relevant literature and synthesize ideas in a new way. Primary data collection is required using surveys, questionnaires, interviews, participant observations, or laboratory analyses. These are written under the guidance of an Anthropology Department Advisor and two other faculty, one from the Anthropology Department, and must be successfully defended before a thesis committee. Prerequisites: AN400 and senior Honors in the Anthropology major.

BI101 Biology I Lab

4.0 Credits

The human species, the basic mechanisms of life, and the delicate balance in the biosphere. In Biology I the approach is through study of life processes from the molecular to the organ system level of structure. Biology I addresses GLE LO's Natural Sciences (NS), Critical Thinking (CT) and Inquiry & Analysis (IA). Offered in the Fall.

BI101L Biology I Lecture

0.0 Credits

The human species, the basic mechanisms of life, and the delicate balance in the biosphere. In Biology I the approach is through study of life processes from the molecular to the organ system level of structure. Biology I addresses GLE LO's Natural Sciences (NS), Critical Thinking (CT) and Inquiry & Analysis (IA). Offered in the Fall

BI102 Biology II Lab

4.0 Credits

The human species, the basic mechanisms of life, and the delicate balance in the biosphere. Biology II studies the evolutionary process, the diversity of living things, ecological relationships, and the impact of the human species on the biosphere. Addresses GLE Learning Outcomes Natural Sciences, Problem Solving and Technology Literacy. Offered in the Spring.

BI102L Biology II Lecture

0.0 Credits

The human species, the basic mechanisms of life, and the delicate balance in the biosphere. Biology II studies the evolutionary process, the diversity of living things, ecological relationships, and the impact of the human species on the biosphere. Addresses GLE Learning Outcomes Natural Sciences, Problem Solving and Technology Literacy. Offered in the Spring.

BI211 Genetics Lab

4.0 Credits

Hereditary mechanisms of cells, individuals, and populations. Experiments and reasoning through which genetic information has been achieved will be described and analyzed. Heredity in microbes, plants, and animals is explored from the molecular, chromosomal and phenotypic points of view. Genetics is presented as unifying the study of all organisms. Prerequisite: BI102 Fall, Spring

BI211L Genetics Lecture

0.0 Credits

Hereditary mechanisms of cells, individuals, and populations. Experiments and reasoning through which genetic information has been achieved will be described and analyzed. Heredity in microbes, plants, and animals is explored from the molecular, chromosomal and phenotypic points of view. Genetics is presented as unifying the study of all organisms. Prerequisite: BI102 Fall, Spring

BI214 Coastal Ecology

3.0 Credits

This field study course runs in May as part of spring semester. It will explore New England coastal ecology, with special focus on outer Cape Cod. Course topics include coastal geomorphology; barrier island dynamics and estuarine ecology; plant succession on active dune systems; threatened and endangered coastal and marine species; human impacts to coastal ecosystems; and natural resource management issues in New England coastal systems. Prerequisite: BI101 or ES101 or ES103 or IC110 or GL115.

BI215 Biology & Health Sciences Seminar

3.0 Credits

This course is designed to give the student important guidance might not otherwise be received in their formal undergraduate education. In particular this course will focus on helping the student decide what path to take after completion of the undergraduate degree, determining the topic and details of Senior Thesis or Internship (In Biology, the internship is an option only for those students seeking a B.A. degree), creating a professional cover letter and resume and refining skills in researching the primary literature and presenting scientific information. Prerequisite: Sophomore standing or permission of instructor.

BI217 Tropical Ecology 4.0 Credits

This course introduces the fundamental characteristics of the rainforest and adjacent ecosystems. Students will learn, through direct observation, lectures, seminars, field exercises and interpretation, about the physical and biological forces that shape the tropical forest and its plant and animal inhabitants. The course begins with a series of seminars in the fall semester on campus, followed by an extended field trip to Costa Rica during the winter break. Prerequisites: BI102 or ES102 or ES104. Preference will be given to juniors and seniors majoring in Biology or Environmental Science. In addition, attendance at an information session prior to course registration is required for enrollment. Fall-January, alternate years

BI218 Ecology Lab 4.0 Credits

The interactions of individual organisms, populations, and communities with their environments. Lectures and laboratories emphasize principles and techniques of ecological investigations. Most lab sessions take place outdoors in the field, regardless of weather. Prerequisite: BI102, ES102 or ES104 or IC111. Fall

BI218L Ecology Lecture 0.0 Credits

The interactions of individual organisms, populations, and communities with their environments. Lectures and laboratories emphasize principles and techniques of ecological investigations. Most lab sessions take place outdoors in the field, regardless of weather. Prerequisite: BI102, ES102 or ES104 or IC111. Fall

BI229 Special Topics in Biology 0.0 Credits

Special Topics 1-3 credits. Constructed around a timely issue in biology, generally in a field of expertise of the faculty member facilitating the course. Prerequisites vary.

BI231 Animal Behavior Lab 4.0 Credits

The integration of traditional ethology and comparative psychology by using the major biological paradigm of evolution. Readings and lectures discriminate the levels of behavioral analysis, from physiological to ecological, and the method of investigation used at each level. Laboratory focuses on actual field observations and analyses of animal behavior. Spring, alternate years

BI231L Animal behavior Lecture 0.0 Credits

The integration of traditional ethology and comparative psychology by using the major biological paradigm of evolution. Readings and lectures discriminate the levels of behavioral analysis, from physiological to ecological, and the method of investigation used at each level. Laboratory focuses on actual field observations and analyses of animal behavior. Spring, alternate years

BI235 Human Health and Nutrition 3.0 Credits

A survey of human nutrition that is accurate, up-to-date, and consistent with scientific principles. The course is designed in such a way that the information presented may be easily understood, enjoyed, and found applicable to important concerns in the daily lives of students with little scientific background. Fall, Spring.

BI241 Evolutionary Biology Lab 4.0 Credits

This course examines the patterns of evolution seen in the fossil record and in current biodiversity on the planet, as well as the underlying processes that drive evolutionary change. Themes for the course include the importance of evolution to the study of biology at all levels, from the sub-cellular to the global ecosystem, and how knowledge of evolutionary processes is critical to understanding the future of life on Earth. Prerequisite: BI102 or ES102 or ES104.

BI241L Evolutionary Biology Lecture 0.0 Credits

This course examines the patterns of evolution seen in the fossil record and in current biodiversity on the planet, as well as the underlying processes that drive evolutionary change. Themes for the course include the importance of evolution to the study of biology at all levels, from the sub-cellular to the global ecosystem, and how knowledge of evolutionary processes is critical to understanding the future of life on Earth. Prerequisite: BI102 or ES102 or ES104.

BI250 Introduction to Plant Biology Lab 4.0 Credits

The evolutionary history of the plant kingdom. Cytology, anatomy, physiology, and reproduction of land plants. Prerequisite: BI102 or ES102 or ES104. Spring, alternate years

BI250L Intro to Plant Biology Lecture 0.0 Credits

The evolutionary history of the plant kingdom. Cytology, anatomy, physiology, and reproduction of land plants. Prerequisite: BI102 or ES102 or ES104. Spring, alternate years

BI260 Human Anatomy and Physiology I Lab 4.0 Credits
This course introduces the organization of the human body in the context of the unifying concepts of feedback regulation and homeostasis. The course assumes a general knowledge of cell structure and function and begins with a study of tissues and a general introduction to organs and systems. It then provides detailed study of the integumentary, skeletal, muscular, and nervous systems. This course has both a lecture and laboratory component. This course and BI 261, Anatomy and Physiology II provide students with a general introduction to the biology of the human body. It is required that the two courses be taken in sequence with BI260 coming first. Addresses GLE Learning Outcomes Natural Sciences, Inquiry & Analysis, and Critical Thinking. This course is cross-listed as AN 260. Prerequisite: BI102 or permission of the instructor. Fall

BI260L Human Anatomy Physiology I Lecture 0.0 Credits
This course introduces the organization of the human body in the context of the unifying concepts of feedback regulation and homeostasis. The course assumes a general knowledge of cell structure and function and begins with a study of tissues and a general introduction to organs and systems. It then provides detailed study of the integumentary, skeletal, muscular, and nervous systems. This course has both a lecture and laboratory component. This course and BI 261, Anatomy and Physiology II provide students with a general introduction to the biology of the human body. It is required that the two courses be taken in sequence with BI260 coming first. Addresses GLE Learning Outcomes Natural Sciences, Inquiry & Analysis, and Critical Thinking. This course is cross-listed as AN 260. Prerequisite: BI102 or permission of the instructor. Fall

BI261 Human Anatomy & Physiology II Lab 4.0 Credits
This course continues the study of the human body begun in BI 260, Anatomy and Physiology I. The course examines the relationships between endocrine, cardiovascular, lymphatic, respiratory, digestive, reproductive and urinary body systems along with the regulatory mechanisms that integrate them. The course also includes considerations of nutrient absorption and delivery, metabolism and excretory function. This course has both a lecture and laboratory component. This course and BI 260 Anatomy and Physiology I provide students with a general introduction to the biology of the human body. Prerequisite: BI 260 or course instructor's approval. Addresses GLE Learning Outcomes Natural Sciences, Inquiry & Analysis, and Problem Solving. Offered in the Spring.

BI261L Human Anatomy & Physiology II Lect 0.0 Credits
This course continues the study of the human body begun in BI 260, Anatomy and Physiology I. The course examines the relationships between endocrine, cardiovascular, lymphatic, respiratory, digestive, reproductive and urinary body systems along with the regulatory mechanisms that integrate them. The course also includes considerations of nutrient absorption and delivery, metabolism and excretory function. This course has both a lecture and laboratory component. This course and BI 260 Anatomy and Physiology I provide students with a general introduction to the biology of the human body. Prerequisite: BI 260 or course instructor's approval. Addresses GLE Learning Outcomes Natural Sciences, Inquiry & Analysis, and Problem Solving. Offered in the Spring.

BI299 Independent Study in Biology 0.0 Credits
Independent Study 1-6 Credits. Offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the Dean or Dean's designee. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

BI302 Food Production 3.0 Credits
This course introduces students to many of the ways our food is produced. Its' intent is to help students understand where their food comes from, how it is produced and what happens to it along the way. We will explore the common food production methods including industrial, organic and micro-farms. We will look at the role imports play as well as the public health, social, economic and environmental costs and benefits of the current food system. Prerequisite: BI235 or permission of instructor

BI310 Research Methods 3.0 Credits
The course is designed to provide an understanding of basic research methods and techniques used in medical science but also applicable to almost any area of investigation and scholarship. Students will be exposed to the basic analytical, graphical and statistical methods used to generate and interpret data, and will demonstrate their knowledge of the course materials by analyzing and interpreting research from professional journals, from analyzing and graphing raw data provided in class and by planning an independent research study over the course of the semester. Students will learn to effectively use EXCEL software for data manipulation, graphics and statistical analysis. They will also develop literature searching tools using a variety of available library databases and free bibliographic software for preparation of scholarly documents. Spring term.

BI312 Vertebrate Zoology Lab 4.0 Credits

The vertebrates, with consideration of classification, adaptive radiation, functional morphology, and natural history of each class. Laboratory work stresses identification and field studies of local vertebrate fauna. Prerequisite: BI102 or ES104 Spring, alternate years

BI312L Vertebrate Zoology Lecture 0.0 Credits

The vertebrates, with consideration of classification, adaptive radiation, functional morphology, and natural history of each class. Laboratory work stresses identification and field studies of local vertebrate fauna. Prerequisite: BI102 or ES104 Spring, alternate years

BI319 Cellular Biology Lab 4.0 Credits

Cell chemistry, structure/function, molecular mechanisms of eukaryotic cellular processes. Eukaryotic cells are considered with the objective of developing a conceptual model of the cell adequate to explain its operation. Techniques utilized by cell biologists, with a focus on Bioinformatics, will be featured in the laboratory. Prerequisite: BI211

BI319L Cellular Biology Lecture 0.0 Credits

Cell chemistry, structure/function, molecular mechanisms of eukaryotic cellular processes. Eukaryotic cells are considered with the objective of developing a conceptual model of the cell adequate to explain its operation. Techniques utilized by cell biologists, with a focus on Bioinformatics, will be featured in the laboratory. Co-requisite: BI319

BI320 Wetland Ecology and Protection Lab 4.0 Credits

Examines the plants, animals, soils, hydrology, and chemistry of different wetland types. The course will include the study of wetland-watershed interactions, and of the methods of wetland protection. Prerequisite: ES101 or ES103 or BI218.

BI320L Wetland Ecology Protection Lecture 0.0 Credits

Examines the plants, animals, soils, hydrology, and chemistry of different wetland types. The course will include the study of wetland-watershed interactions, and of the methods of wetland protection. Prerequisite: ES101 or ES103 or BI218.

BI325 Microbiology Lab 4.0 Credits

Overview of the microbial world including the fundamental concepts of microbial genetics, pathogenesis, physiology and diversity. Laboratory emphasizes sterile technique, microscopy and characterization of microorganisms through molecular, metabolic and physical characteristics. Prerequisites: BI102, CH102.

BI325L Microbiology Lecture 0.0 Credits

Overview of the microbial world including the fundamental concepts of microbial genetics, pathogenesis, physiology and diversity. Laboratory emphasizes sterile technique, microscopy and characterization of microorganisms through molecular, metabolic and physical characteristics. Prerequisites: BI102, CH102.

BI326 Parasitology 3.0 Credits

This course will emphasize the specific organisms known as a human parasite, diseases caused, vectors involved, treatment, and any epidemiology. When dealing with insecta there will be emphasis of both those taxa which are parasitic and those which are known vectors of other organisms. Prerequisite: BI 102

BI327 Principles of Immunology 3.0 Credits

The role of the vertebrate immune system is to protect the body from infection. In this course we will examine the principles of immunology that underlie an organism's ability to orchestrate the sophisticated development of an immune response. Topics covered will include: development of the immune system, general properties of immune responses; cells and tissues of the immune system; immunity to microbes; immunodeficiency and AIDS; autoimmune diseases; transplantation. Prerequisites: C or better in BI101/102; BI211; CH101/102 recommended

BI329 Topics in Biology 0.0 Credits

Special Topics in Biology 1-3 Credits. Constructed around a timely issue in biology, generally in a field of expertise of the faculty member facilitating the course. Prerequisites vary.

BI337 Advanced Nutrition 3.0 Credits

Nutritional insights and recommendations for: pregnancy; the use of probiotics and nutritional supplements; vegetarianism, veganism, and macrobiotic diets; eating disorders; patients with food allergies; patients with cancer; preventing adult and childhood obesity, insulin

resistance, and type 2 diabetes; preventing heart disease and hypertension; elder care; and providing guidelines for peak physical activity and professional training diets. Prerequisite: BI102 and BI235. Fall and Spring semester.

BI351 Endocrinology 3.0 Credits
Endocrinology is the study of the endocrine system. The endocrine system is responsible for the synthesis and secretion of hormones that enable the maintenance of homeostasis. This course will address the normal anatomy and physiology of the organs of the endocrine system. Further, understanding of endocrine pathophysiology will be pursued through appropriate background information and the current original literature. An inquiry-based approach will engage in for discussions of each unit. Prerequisite: BI102.

BI353 Introduction to Pharmacology 3.0 Credits
This course provides students with an overview of pharmacology with an emphasis on mechanisms and clinical applications, using a body systems approach. Explores indications, modes of action, effects, contraindications and interactions for selected drugs. Prerequisites: BI 101, BI102, CH211 or permission of instructor

BI367 Water Resources Management Lab 4.0 Credits
This course addresses the science and policy of maintaining a healthy and adequate water supply in the US and other countries. We will consider the watershed connections, the geologic setting, and the impacts of development on the physical, chemical and biological aspects of surface water and groundwater bodies. We will also learn the field tools and techniques used to sample surface water and analyze its chemistry. Pre-requisite: BI218 or permission of the instructor.

BI367L Water Resources Management Lecture 0.0 Credits
This course addresses the science and policy of maintaining a healthy and adequate water supply in the US and other countries. We will consider the watershed connections, the geologic setting, and the impacts of development on the physical, chemical and biological aspects of surface water and groundwater bodies. We will also learn the field tools and techniques used to sample surface water and analyze its chemistry. Pre-requisite: BI218 or permission of the instructor.

BI370 Medical Term & Health Systems 3.0 Credits
This course is designed to acquaint students interested in entering the medical fields with the science of medicine, healthcare delivery systems and the ethical framework that supports them. There will also be focus on medical terminology as it relates to the medical profession, healthy physiology and disease processes. Critical review of current medical literature will assist in understanding evidence-based medicine. Fall, Spring.

BI375 Mammalogy Lab 4.0 Credits
The investigation of mammal biology, including the evolution, radiation, reproductive biology, behavior and natural history of mammals. Laboratory work stresses the identification of New Hampshire mammals, field studies, and proper museum preparation of mammal study specimens. Prerequisite: BI102 or ES104 Fall, alternate years

BI375L Mammalogy Lecture 0.0 Credits
The investigation of mammal biology, including the evolution, radiation, reproductive biology, behavior and natural history of mammals. Laboratory work stresses the identification of New Hampshire mammals, field studies, and proper museum preparation of mammal study specimens. Prerequisite: BI102 or ES104 Fall, alternate years

BI399 Independent Study in Biology 0.0 Credits
Independent Study 1-6 Credits. Offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the Dean or Dean's designee. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

BI400 Kinesiology Lab 4.0 Credits
Application of knowledge of human physical structure and function in the analysis and appreciate of human movement; theory and practice of human movement analytic techniques. Prerequisite: BI260 Human Anatomy and Physiology I Course offered Fall and Spring

- BI400L Kinesiology Lecture 0.0 Credits**
Application of knowledge of human physical structure and function in the analysis and appreciate of human movement; theory and practice of human movement analytic techniques. Corequisite: BI400 Course offered Fall and Spring
- BI402 Exercise Physiology Lab 4.0 Credits**
A survey of human physiology parameters as related to physical exercise and work and the development of physiological fitness factors. Physiological foundations will be considered. Prerequisite: BI260, BI261 Corequisite: BI402L Fall and Spring
- BI402L Exercise Physiology Lecture 0.0 Credits**
A survey of human physiology parameters as related to physical exercise and work and the development of physiological fitness factors. Physiological foundations will be considered. Corequisite: BI402 Fall and Spring
- BI403 Assessment Prescript of Fitness Lab 4.0 Credits**
This is a lecture and laboratory course designed to provide the student with a basic understanding of laboratory and field assessment techniques used in exercise physiology, fitness/wellness facilities, and--to a minor extent—clinical situations. This course will emphasize fitness assessment and exercise program design principles for cardiovascular fitness, muscular strength and endurance, body composition, balance and flexibility. Prerequisite: Prerequisite: BI400. Fall/Spring
- BI403L Assessment Prescript of Fitness Lec 0.0 Credits**
This is a lecture and laboratory course designed to provide the student with a basic understanding of laboratory and field assessment techniques used in exercise physiology, fitness/wellness facilities, and--to a minor extent—clinical situations. This course will emphasize fitness assessment and exercise program design principles for cardiovascular fitness, muscular strength and endurance, body composition, balance and flexibility. Prerequisite: Prerequisite: BI400 with a grade of C or higher. Fall/Spring
- BI404 Strength and Conditioning Lab 4.0 Credits**
This course includes a review of resistance training based upon the scientific literature and is intended to promote the use of a structured scientific approach in the prescription of progressive resistance training and metabolic conditioning. Prerequisites: BI 400. Fall and Spring
- BI404L Strength and Conditioning Lecture 0.0 Credits**
This course includes a review of resistance training based upon the scientific literature and is intended to promote the use of a structured scientific approach in the prescription of progressive resistance training and metabolic conditioning. Pre-requisites: Prerequisites, BI 400 with a grade of C or higher. Fall and Spring
- BI405 Clinical Exercise Physiology 3.0 Credits**
This is a lecture, 3 credit course that will provide students with a detailed understanding and clinically relevant ability to comprehend the pathophysiology on a range of conditions, including CVD, pulmonary, metabolic, older adults, pregnancy, and assess the health risk impact on various people. This course is case-based with emphases on the major related health factors of the apparently healthy person, as well as individuals with various health conditions. This course can be viewed as the capstone for the Certificate in Exercise Physiology. Prerequisites for this course include: BI260, BI261, BI370, BI400, BI402, BI403, BI404. Spring term
- BI420 Evolution Seminar 1.0 Credit**
Examines the factual, historical, and philosophical basis of modern evolutionary theory using recent articles and publications. Prerequisite: junior or senior standing in Biology or permission of instructor.
- BI429 Special Topics in Biology 0.0 Credits**
Special Topics in Biology 1-3 Credits. Constructed around a timely issue in biology, generally in a field of expertise of the faculty member facilitating the course. Prerequisites vary.
- BI430 Forest Ecology Lab 4.0 Credits**
Examines the basic ecological processes that influence forest type and forest structure. Topics covered range from broad scale landscape patterns of natural and human disturbance to the specific habitat requirements of individual plant species. The laboratory section consists of weekly field trips to forests both on and off the campus, and will emphasize quantitative techniques for the collection and interpretation of field data, as well as basic natural history. Prerequisite: BI218 or permission of instructor.

BI430L Forest Ecology Lecture 0.0 Credits
Examines the basic ecological processes that influence forest type and forest structure. Topics covered range from broad scale landscape patterns of natural and human disturbance to the specific habitat requirements of individual plant species. The laboratory section consists of weekly field trips to forests both on and off the campus, and will emphasize quantitative techniques for the collection and interpretation of field data, as well as basic natural history. Prerequisite: BI218 or permission of instructor.

BI460 Internship Biology/Health Science 0.0 Credits
Internship 2-6 credits. An on-site field experience with a public or private agency or institution such as a laboratory, hospital, natural resources department or public health office. Internships normally require a minimum of 55 hours of on-the-job work per semester hour of credit, a grade point average of 3.00 or higher, and demonstrated ability to complete the work expected. Internships are developed in consultation with a faculty internship advisor and require approval of the advisor, prospective internship supervisor, and the Dean or Dean's designee. Evaluation is made by the internship advisor, in consultation with the supervisor. Prerequisites: Biology or Health Sciences major, junior or senior standing, and permission of the instructor

BI461 Internship Biology/Health Science 0.0 Credits
Internship-2-6 credits. An on-site field experience with a public or private agency or institution such as a laboratory, hospital, natural resources department or public health office. Internships normally require a minimum of 55 hours of on-the-job work per semester hour of credit, a grade point average of 3.00 or higher, and demonstrated ability to complete the work expected. Internships are developed in consultation with a faculty internship advisor and require approval of the advisor, prospective internship supervisor, and the Dean or Dean's designee. Evaluation is made by the internship advisor, in consultation with the supervisor. Prerequisites: Biology or Health Sciences major, junior or senior standing, and permission of the instructor

BI462 Internship Biology/Health Science 0.0 Credits
Internship-2-6 credits. An on-site field experience with a public or private agency or institution such as a laboratory, hospital, natural resources department or public health office. Internships normally require a minimum of 55 hours of on-the-job work per semester hour of credit, a grade point average of 3.00 or higher, and demonstrated ability to complete the work expected. Internships are developed in consultation with a faculty internship advisor and require approval of the advisor, prospective internship supervisor, and the Dean or Dean's designee. Evaluation is made by the internship advisor, in consultation with the supervisor. Prerequisites: Biology or Health Sciences major, junior or senior standing, and permission of the instructor

BI480 Senior Seminar in Biology 3.0 Credits
Reading and discussions of selected topics. Consideration of the goals and methods of scientific research. Required of all Biology/Health Science majors as a Capstone option. Prerequisite: Junior standing.

BI481 Invited Senior Research 3.0 Credits
A student is invited to participate in an ongoing research project being conducted by a faculty member in the College of Health and Natural Sciences. The student and sponsoring faculty member will establish a contract of expectations and outcomes. The student will be required to offer either a presentation or research paper at the end of their research experience. Senior Capstone option. Prerequisites: senior standing, permission of instructor.

BI499 Independent Study in Biology 0.0 Credits
Independent Study 1-6 credits. Offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the Dean or Dean's designee. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

CH101 General Chemistry I Lab 4.0 Credits
Fundamental principles of chemistry including atomic structure, the periodic system, kinetic molecular theory, properties of elements and compounds, chemical equilibrium, reaction kinetics, and chemical thermodynamics. A strong background in mathematics is required. Prerequisite: High school GPA ≥ 3.0 or MT151 with a grade of C- or above or permission of instructor.

CH101L General Chemistry 1 Lecture 0.0 Credits
Fundamental principles of chemistry including atomic structure, the periodic system, kinetic molecular theory, properties of elements and compounds, chemical equilibrium, reaction kinetics, and chemical thermodynamics. A strong background in mathematics is required. Prerequisite: High school GPA ≥ 3 or sophomore standing. Prerequisite for CH102: CH101.

CH102	General Chemistry II Lab	4.0 Credits
Fundamental principles of chemistry including atomic structure, the periodic system, kinetic molecular theory, properties of elements and compounds, chemical equilibrium, reaction kinetics, and chemical thermodynamics. A strong background in mathematics is required. Prerequisite: High school GPA ≥ 3 or sophomore standing. Prerequisite for CH102: CH101.		
CH102L	General Chemistry II Lecture	0.0 Credits
Fundamental principles of chemistry including atomic structure, the periodic system, kinetic molecular theory, properties of elements and compounds, chemical equilibrium, reaction kinetics, and chemical thermodynamics. A strong background in mathematics is required. Prerequisite: High school GPA ≥ 3 or sophomore standing. Prerequisite for CH102: CH101.		
CH203	Forensic Chemistry Lab	4.0 Credits
An introductory course in Forensic Chemistry. Students are introduced to the most common types of physical evidence and the scientific methods and techniques used to examine and analyze such evidence. Topics covered in this course include (but are not limited to) fingerprint analysis, analysis of hairs, fibers and paint, toxicology, serology, DNA profiling and arson investigation. In the laboratory, students will be acquainted with basic forensic laboratory techniques for the analysis of the types of physical evidence discussed in lecture. Prerequisites: CH101-102. Spring of Alternate Years		
CH211	Organic Chemistry 1 Lab	4.0 Credits
Principal classes of aliphatic and aromatic compounds, with emphasis on class reactions and structural theory. Laboratory exercises include the preparation and purification of selected organic compounds. Prerequisite: CH102.		
CH211L	Organic Chemistry I Lecture	0.0 Credits
Principal classes of aliphatic and aromatic compounds, with emphasis on class reactions and structural theory. Laboratory exercises include the preparation and purification of selected organic compounds. Prerequisite: CH102.		
CH212	Organic Chemistry II Lab	4.0 Credits
Principal classes of aliphatic and aromatic compounds, with emphasis on class reactions and structural theory. Laboratory exercises include the preparation and purification of selected organic compounds. Prerequisite: CH102.		
CH212L	Organic Chemistry II Lecture	0.0 Credits
Principal classes of aliphatic and aromatic compounds, with emphasis on class reactions and structural theory. Laboratory exercises include the preparation and purification of selected organic compounds. Prerequisite: CH102.		
CH221	Environmental Chemistry Lab	4.0 Credits
Survey of the chemistry of environmental problems. Topics include air, ground and water pollution, waste water treatment, and solid waste management. Prerequisite: CH102		
CH221L	Environmental Chemistry Lecture	0.0 Credits
Survey of the chemistry of environmental problems. Topics include air, ground and water pollution, waste water treatment, and solid waste management. Prerequisite: CH102		
CH229	Special Topics: Chemistry	0.0 Credits
Special Topics 1-4 credits. Constructed around a timely issue in Chemistry, generally in a field of expertise of the faculty member facilitating the course. Prerequisites may vary.		
CH299	Independent Study in Chemistry	0.0 Credits
Independent Study-1-6 credits. Offers an opportunity to explore an area of study not included in the Catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the Dean or Dean's designee. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.		
CH312	Quantitative Analysis Lab	4.0 Credits
An introductory course in analytical chemistry including gravimetric and volumetric techniques, UV absorption spectroscopy, and gas chromatography. Prerequisite: CH102. Spring of alternate years		

CH312L Quantitative Analysis Lecture 0.0 Credits

An introductory course in analytical chemistry including gravimetric and volumetric techniques, UV absorption spectroscopy, and gas chromatography. Prerequisite: CH102. Spring of alternate years

CH321 Biochemistry Lab 4.0 Credits

A basic course in biochemistry concerned with the structure, synthesis and metabolism of carbohydrates, proteins, and lipids. Prerequisites: BI212, CH211.

CH321L Biochemistry Lecture 0.0 Credits

A basic course in biochemistry concerned with the structure, synthesis and metabolism of carbohydrates, proteins, and lipids. Prerequisites: BI212, CH211.

CH329 Special Topics: Chemistry 0.0 Credits

Special Topics-1-4 credits. Constructed around a timely issue in Chemistry, generally in a field of expertise of the faculty member facilitating the course. Prerequisites may vary.

CH399 Independent Study in Chemistry 0.0 Credits

Independent Study-1-4 Credits. Offers an opportunity to explore an area of study not included in the Catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the office of the Dean or Dean's Designee. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

CH429 Special Topics: Chemistry 0.0 Credits

Special Topics-1-4 credits. Constructed around a timely issue in Chemistry, generally in a field of expertise of the faculty member facilitating the course. Prerequisites may vary.

CH499 Independent Study in Chemistry 0.0 Credits

Independent Study-1-4 credits. Offers an opportunity to explore an area of study not included in the Catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or from the Dean or Dean's designee. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

CIT101 Microcomputer Applications 3.0 Credits

Covers the fundamentals of microcomputer application skills with emphasis on hands-on learning, including word-processing, spreadsheets, databases, presentations and communications, including Internet and World Wide Web. An overview of computers and related social issues may also be covered as time permits.

CIT102 Information Technology 3.0 Credits

Introduces students to contemporary information technology: computer hardware, software, databases and data warehouses, Internet, e-Commerce, Transactions Processing Systems, Decision Support Systems, Geographic Information Systems, Artificial Intelligence, Expert Systems, Neural Networks, Fuzzy Logic, Genetic Algorithms, Intelligent Agents, Swarm Intelligence, Systems Development, Enterprise Resource Planning, Security, and how it is used in business to gain competitive advantage.

CIT130 Database Applications 3.0 Credits

Study of terms and terminology of relational databases as they pertain to current popular database software packages. Emphasis is on a project-oriented approach solving real world applications utilizing a database software package such as MS Access. Topics covered include creating a database, designing queries, generating reports, and other database management functions.

CIT140 Electronic Spreadsheets 3.0 Credits

CIT140 Electronic Spreadsheets 3 credits Students learn to solve real-world application problems by organizing data, performing mathematical operations, producing charts, and presenting well-designed worksheets using an electronic spreadsheet package such as MS Excel. The emphasis is on a project-oriented approach.

CIT211 Introduction to Programming**3.0 Credits**

Teaches the student how to solve problems using the computer. The emphasis is on analyzing a problem and designing and implementing a solution using an appropriate programming language. Language details will be covered.

CIT222 Intro Geographic Info Systems**3.0 Credits**

Geographic Information Systems (GIS) is a digital cartography (computer mapping) tool for the analysis and integration of locational information. This course will provide an introduction to cartographic principles and will introduce the theory and concepts of GIS and provide hands-on training in the ArcView® desktop GIS software. It will focus on the use of spatial information for geographic analysis and the development of an effective presentation.

CIT230 Intermediate Geographic Info System**3.0 Credits**

Geographic Information Systems (GIS) is a digital cartography (computer mapping) tool for the analysis and integration of locational information. This course provides hands-on training in the PC Arc/Info® GIS software, while concentrating on the development and analysis of geographic information. Prerequisite: CIT222.

CIT232 Web Design and Development**3.0 Credits**

Covers the Hypertext Markup Language (HTML), the language used for creating web pages as well as more recent developments in web page interactivity. Furnishes an understanding of the history, development, and capabilities of the World Wide Web and introduces students to programming skills and proper techniques for designing, documenting, debugging, and maintaining a web site. Encourages discussion on a broad spectrum of topics and technologies enabled through the use of Internet capabilities. Students may also learn to use tools such as Macromedia Dreamweaver in designing and maintaining web sites.

CIT234 Web Programming**3.0 Credits**

Teaches how to create dynamic Web pages using one of the popular Web scripting languages such as JavaScript. The course assumes prior knowledge of HTML and teaches how to add interactive functions to HTML pages. Topics discussed include data types and operators, functions, events and control structures, forms, cookies and security. Students will be able to learn object-oriented programming and debugging in relation to the scripting language used. The Browser/Document Object Model (DOM) specification published by the World Wide Web Consortium (W3C) will also be discussed. Prerequisite: CIT232 or permission of instructor

CIT270 Technical Writing**3.0 Credits**

This course will cover developing the reading skills and the writing skills for technical communication in diverse fields such as medical, pharmaceuticals, chemistry, biotechnology, computer software, computer hardware, electronics, aerospace, arts, business, law, religion, and finance. The students will identify the audience being addressed and write documents such as end-user manuals, system design documents, websites appropriately designed, formatted, and written with precision tools of a technical writer for the target audience to achieve clear communication. Prerequisite: GLE110.

CIT301 Cyber Ethics and Law**3.0 Credits**

Designed to explore current topics in Cyber Law as they affect society, government, economics, business and international trade. The central focus of the course revolves around the delicate balance being forged between law and technology. The topics to be discussed include intellectual property issues such as copyrights and trademarks, business and finance issues such as on-line contracting and taxation, social issues such as privacy, defamation, computer crime, international issues in cyberspace and constitutional issues. Prerequisite: junior class standing

ES103 Intro Ecosys/Wildlife Conserve Lab**4.0 Credits**

Using real-world data from local and global sites, students will explore the issues related to species conservation around the world. Issues of habitat destruction, pollution, invasive species, overhunting and human overpopulation will be investigated, as well as basic concepts of evolution, biogeography and human attitudes towards the environment. Students will examine trends in biodiversity, and learn how ecosystems can be preserved, managed and restored in order to save wild biodiversity and create a sustainable society. Addresses GLE Learning Outcomes Natural Sciences, Critical Thinking and Inquiry & Analysis. Note: ES103 is the first of a two-semester laboratory science sequence with ES104.

ES103L Intro Ecosys/Wildlife Conserve Lec**0.0 Credits**

Using real-world data from local and global sites, students will explore the issues related to species conservation around the world. Issues of habitat destruction, pollution, invasive species, overhunting and human overpopulation will be investigated, as well as basic concepts of evolution, biogeography and human attitudes towards the environment. Students will examine trends in biodiversity, and learn how ecosystems can be preserved, managed and restored in order to save wild biodiversity and create a sustainable society. Addresses GLE

Learning Outcomes Natural Sciences, Critical Thinking and Inquiry & Analysis. Note: ES103 is the first of a two-semester laboratory science sequence with ES104.

ES104 **Intro Natural Resource Cons Lab** **4.0 Credits**
Using real-world data from local and global sites, students will explore the issues related to natural resource conservation around the world. Topics covered will include impacts of mining and processing natural resources, recycling and waste management, renewable and non-renewable energy resources, global climate change and management of water resources, as well as basic concepts of geology, energy and human attitudes towards the environment. Students will examine trends in global resource use, learn how natural resources can be used more wisely through problem solving, and take action through civic engagement to move towards creating a more a sustainable society. Addresses GLE Learning Outcomes Natural Sciences, Problem Solving and Technology Literacy. Note: ES104 is the second of a two-semester laboratory science sequence with ES103.

ES104L **Intro Natural Resource Cons Lecture** **0.0 Credits**
Using real-world data from local and global sites, students will explore the issues related to natural resource conservation around the world. Topics covered will include impacts of mining and processing natural resources, recycling and waste management, renewable and non-renewable energy resources, global climate change and management of water resources, as well as basic concepts of geology, energy and human attitudes towards the environment. Students will examine trends in global resource use, learn how natural resources can be used more wisely through problem solving, and take action through civic engagement to move towards creating a more a sustainable society. Addresses GLE Learning Outcomes Natural Sciences, Problem Solving and Technology Literacy. Note: ES104 is the second of a two-semester laboratory science sequence with ES103.

ES108 **Nature and Culture** **3.0 Credits**
This introductory course seeks to answer the question: what are the current types of relationships between nature and culture and what might these relationship look like to better protect natural resources, such as land, water and soil? The course draws from several disciplines that are traditionally designated as humanities. We critique a variety of literature to understand the diverse ways humans value the natural environment; we examine the ethical dilemmas inherent in environmental problems; we investigate traditional and current understanding of nature among different cultures; and, we review the political discourse of different environmental issues and their policy implications. Addresses GLE Learning Outcomes Humanities (HM), Critical Thinking (CT) and Intercultural Knowledge (IK).

ES205 **Environmental Geology Lab** **4.0 Credits**
Provides a broad overview of the environmental impacts associated with resource extraction and use, with soil use, and with water use. Particular attention is paid to the roles of human population growth and growth in per capita consumption in these various environmental impacts. Prerequisite: GL101 or ES101 or ES103

ES205L **Environmental Geology Lecture** **0.0 Credits**
Provides a broad overview of the environmental impacts associated with resource extraction and use, with soil use, and with water use. Particular attention is paid to the roles of human population growth and growth in per capita consumption in these various environmental impacts. Prerequisite: GL101 or ES101 or ES103

ES206 **Cultural Resource Management Lab** **4.0 Credits**
Examines theory and methods of archaeological research, the modern practice of cultural resource management, the place of archaeological resources in modern environmental review processes, and the use of modern survey technology and data including LiDAR, GIS, and NRCS soil surveys. Students will complete a Phase IA study for a section of campus land and complete a full day of archaeological excavation on a Native American site near campus.

ES206L **Cultural Resource Management Lect** **0.0 Credits**
Examines theory and methods of archaeological research, the modern practice of cultural resource management, the place of archaeological resources in modern environmental review processes, and the use of modern survey technology and data including LiDAR, GIS, and NRCS soil surveys. Students will complete a Phase IA study for a section of campus land and complete a full day of archaeological excavation on a Native American site near campus.

ES210 **Evolution Environmental Thought** **3.0 Credits**
Surveys human understanding of and attitudes toward the natural environment as expressed by naturalists and writers from the 1600s to the present. Emphasis is placed on the development of these ideas as it took place in North America. Prerequisites: permission of instructor; sophomore, junior, or senior standing.

ES214 Coastal Ecology**3.0 Credits**

This field study course runs in May as part of spring semester. It will explore New England coastal ecology, with special focus on outer Cape Cod. Course topics include coastal geomorphology; barrier island dynamics and estuarine ecology; plant succession on active dune systems; threatened and endangered coastal and marine species; human impacts to coastal ecosystems; and natural resource management issues in New England coastal systems. Prerequisite: BI101 or ES101 or ES103 or IC110 or GL115.

ES218 Ecology Lab**4.0 Credits**

The interactions of individual organisms, populations, and communities with their environments. Lectures and laboratories emphasize principles and techniques of ecological investigations. Most lab sessions take place outdoors in the field, regardless of weather. Prerequisite: BI102, ES102 or ES104 or IC111. Fall

ES218L Ecology Lecture**0.0 Credits**

The interactions of individual organisms, populations, and communities with their environments. Lectures and laboratories emphasize principles and techniques of ecological investigations. Most lab sessions take place outdoors in the field, regardless of weather. Prerequisite: BI102, ES102 or ES104 or IC111. Fall

ES229 Special Topics the Environment**0.0 Credits**

Special Topics-1-4 credits. Constructed around a timely issue in Environmental Science or Environmental Studies, generally in a field of expertise of the faculty member facilitating the course. Prerequisites may vary.

ES229L Special Topics Environment Lecture**0.0 Credits**

Constructed around a timely issue in Environmental Science or Environmental Studies, generally in a field of expertise of the faculty member facilitating the course. Prerequisites may vary.

ES236 Environmental Educ Citizen Engage**3.0 Credits**

This course is designed for environmental studies or environmental science majors as a critical course for preparing students for careers doing non-formal education and citizen engagement about environmental issues. Topics covered in the course will enhance the student's ability to develop and deliver programs appropriate for a targeted audience (e.g. 5th graders versus town stakeholders). New advances in education and citizen engagement will be discussed to give the student an appreciation of this relatively new field. Students will create an education tools and techniques portfolio that they can utilize in the workplace upon graduation.

ES240 Creating Sustainable Communities**3.0 Credits**

Students learn what it takes to create a sustainable community through hands-on service- learning projects. Students conduct research and propose specific plans to address a specific existing environmental issue in a local community, such as assessing the impacts of a proposed development, reducing air pollution, or increasing recycling.

ES245 Alternate Energy**3.0 Credits**

This course is an exploration of different methods of generating energy. The course will include calculations on energy use and generation, conservation practices and techniques as well as basic principles of electricity and thermodynamics. We will look at conventional energy, renewable energy forms such as wind, hydro, wood, solar, and geothermal as well as biofuels. No energy discussion is complete without a discussion of the compromises. Almost all energy releases carbon, either directly in its use or indirectly in its production, often both. We will look at the science, the technology, the economics and the environmental issues of each energy type. Prerequisite: ES104 or GL205 or permission of the instructor.

ES299 Indept Study in Environmental Sci**0.0 Credits**

Independent Study-2-6 credits. Independent study offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or the Dean or Dean's designee. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

ES301 Place, Community & Regional Studies**3.0 Credits**

An introduction to the natural and cultural history of a place - using the campus and nearby Rindge as a laboratory. Students will learn to observe nature and culture first hand, "read" the landscape, link local history to larger regional patterns, and understand the sense of place. Prerequisite: GLE120.

ES305 Health, Human Rights & Environ Just 3.0 Credits

Public health has important political and moral implications. This course addresses central issues in the philosophy of health care from an environmental and human rights perspective. Students will consider what is health? What is health care? Does health enjoy a special moral importance? What is it? Who requires and/or deserves health care? Is access to health care a fundamental human right? Students will examine how geography and environmental justice influences the answers to these questions. Students will learn about the disproportionate burdens of environmental contamination and about the health disparities affecting communities of color across the US and internationally. We will review programs that have been organized to address childhood asthma reduction, lead poisoning prevention, waste recycling, clean-up and restoration of contaminated sites, sustainable/organic agriculture, clean energy programs and cancer and health disparities research. Students will be asked to critically examine these efforts and also explore unresolved, chronic problems with environmental injustices and health impacts. Pre-requisites: ES 240 Sustainable Communities is helpful but not required.

ES307 Natural Resources Law and Policy 3.0 Credits

Provides an overview of administrative law, common law, federal and state environmental statutes and regulatory policy affecting the environment. Emphasis will be on management of wetland and pollution. Prerequisites: ES103 or BI101 or BI102 or by permission of the instructor.

ES320 Wetland Ecology & Protection Lab 4.0 Credits

Examines the plants, animals, soils, hydrology, and chemistry of different wetland types. The course will include the study of wetland-watershed interactions, and of the methods of wetland protection. Prerequisite: ES101 or ES103 or BI218.

ES320L Wetland Ecology Protection Lecture 0.0 Credits

Examines the plants, animals, soils, hydrology, and chemistry of different wetland types. The course will include the study of wetland-watershed interactions, and of the methods of wetland protection. Prerequisite: ES101 or ES103 or BI218.

ES329 Special Topics about Environment 0.0 Credits

Special Topics-1-4 credits. Constructed around a timely issue in Environmental Science or Environmental Studies, generally in a field of expertise of the faculty member facilitating the course. Prerequisites may vary.

ES329L Special Topics Environment Lecture 0.0 Credits

Constructed around a timely issue in Environmental Science or Environmental Studies, generally in a field of expertise of the faculty member facilitating the course. Prerequisites may vary.

ES342 Wildlife Conservation & Management 3.0 Credits

The problems of protecting and maintaining biological resources, including endangered species and ecosystems. Application of ecological concepts to maintenance and management of individual species and biodiversity will be emphasized. Ethical, legal and social aspects of these problems will be discussed. Prerequisites: BI101 or ES103 or ES104 or BI218.

ES367 Water Resources Management Lab 4.0 Credits

This course addresses the science and policy of maintaining a healthy and adequate water supply in the US and other countries. We will consider the watershed connections, the geologic setting, and the impacts of development on the physical, chemical and biological aspects of surface water and groundwater bodies. We will also learn the field tools and techniques used to sample surface water and analyze its chemistry. Pre-requisite: ES104 or BI218 or permission of the instructor.

ES367L Water Resources Management Lecture 0.0 Credits

This course addresses the science and policy of maintaining a healthy and adequate water supply in the US and other countries. We will consider the watershed connections, the geologic setting, and the impacts of development on the physical, chemical and biological aspects of surface water and groundwater bodies. We will also learn the field tools and techniques used to sample surface water and analyze its chemistry. Pre-requisite: BI218 or permission of the instructor.

ES399 Indept Study in Environmental Sci 0.0 Credits

Independent Study-2-6 credits. Independent study offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or the Dean or Dean's designee. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

ES429 Special Topics about Environment**0.0 Credits**

Special Topics-1-4 credits. Constructed around a timely issue in Environmental Science or Environmental Studies, generally in a field of expertise of the faculty member facilitating the course. Prerequisites may vary.

ES430 Forest Ecology Lab**4.0 Credits**

Examines the basic ecological processes that influence forest type and forest structure. Topics covered range from broad scale landscape patterns of natural and human disturbance to the specific habitat requirements of individual plant species. The laboratory section consists of weekly field trips to forests both on and off the campus, and will emphasize quantitative techniques for the collection and interpretation of field data, as well as basic natural history. Prerequisite: BI218 or permission of instructor.

ES430L Forest Ecology Lecture**0.0 Credits**

Examines the basic ecological processes that influence forest type and forest structure. Topics covered range from broad scale landscape patterns of natural and human disturbance to the specific habitat requirements of individual plant species. The laboratory section consists of weekly field trips to forests both on and off the campus, and will emphasize quantitative techniques for the collection and interpretation of field data, as well as basic natural history. Prerequisite: BI218 or permission of instructor.

ES460 Internship in Environmental Science**0.0 Credits**

Internship-2-6 credits. An on-site, field experience with a public or private environmental agency or institution. Internships normally require a minimum of 55 hours of on-the-job work per semester hour of credit, a grade point average of 3.00 or higher, and demonstrated ability to complete the work expected. Internships are developed in consultation with a faculty internship advisor and require the approval of the advisor, prospective intern supervisor and the Dean or Dean's designee. Evaluation is made by the internship advisor in consultation with the employer. Prerequisites: Environmental Science major; junior or senior standing; permission of instructor.

ES461 Internship in Environmental Science**0.0 Credits**

Internship-2-6 credits. An on-site, field experience with a public or private environmental agency or institution. Internships normally require a minimum of 55 hours of on-the-job work per semester hour of credit, a grade point average of 3.00 or higher, and demonstrated ability to complete the work expected. Internships are developed in consultation with a faculty internship advisor and require the approval of the advisor, prospective intern supervisor and the Dean or Dean's designee. Evaluation is made by the internship advisor in consultation with the employer. Prerequisites: Environmental Science major; junior or senior standing; permission of instructor.

ES462 Internship in Environmental Science**0.0 Credits**

Internship-2-6 credits. An on-site, field experience with a public or private environmental agency or institution. Internships normally require a minimum of 55 hours of on-the-job work per semester hour of credit, a grade point average of 3.00 or higher, and demonstrated ability to complete the work expected. Internships are developed in consultation with a faculty internship advisor and require the approval of the advisor, prospective intern supervisor and the Dean or Dean's designee. Evaluation is made by the internship advisor in consultation with the employer. Prerequisites: Environmental Science major; junior or senior standing; permission of instructor.

ES480 Junior Seminar in Environ Science**3.0 Credits**

Readings, discussions, and projects on the history, philosophy and technical literature of environmental science. Students will conduct a literature review and design a research plan in preparation for the senior thesis. Required of all Environmental Science majors. Prerequisite: junior standing.

ES490 Environmental Issues Sr Capstone**4.0 Credits**

The Environmental Issues Senior Capstone Project allows Environmental Science and Environmental Studies majors to collaborate on a project designed to help solve an environmental problem. Students will choose the project and lay the groundwork in ES480 Junior Seminar the previous spring. The projects allow the students to take a multi-disciplinary, inquiry-based approach to the issue. Facilitated by the faculty, students get out into the field and meet community members and environmental professionals. Students apply the skills and knowledge learned in earlier classes to a real-world situation. All students will develop individualized pathways within the larger project, to conduct research, devise a plan, and do the actual work to implement their solutions. Prerequisites: ES480, CIT222, MT151, or higher, and have Senior status.

ES499 Indept Study in Environmental Sci**0.0 Credits**

Independent Study-2-6 credits. Independent study offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent

Study” form may be obtained from the Registrar or Dean or Dean's designee. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

GL101 General Geology I Lab 4.0 Credits
Provides insight into the composition, structure, and origin of the earth as revealed by rocks, minerals, land forms, and the fossil record. Special attention is paid to the tectonic and biological history of the planet. GL101 Addresses GLE Learning Outcomes Natural Sciences Inquiry & Analysis and Technology Literacy; GL102 addresses Learning Outcomes Natural Sciences, Critical Thinking and Problem Solving.

GL101L General Geology I Lecture 0.0 Credits
Provides insight into the composition, structure, and origin of the earth as revealed by rocks, minerals, land forms, and the fossil record. Special attention is paid to the tectonic and biological history of the planet. GL101 Addresses GLE Learning Outcomes Natural Sciences Inquiry & Analysis and Technology Literacy; GL102 addresses Learning Outcomes Natural Sciences, Critical Thinking and Problem Solving.

GL102 General Geology II Lab 4.0 Credits
Provides insight into the composition, structure, and origin of the earth as revealed by rocks, minerals, land forms, and the fossil record. Special attention is paid to the tectonic and biological history of the planet. GL101 Addresses GLE Learning Outcomes Natural Sciences Inquiry & Analysis and Technology Literacy; GL102 addresses Learning Outcomes Natural Sciences, Critical Thinking and Problem Solving.

GL102L General Geology II Lecture 0.0 Credits
Provides insight into the composition, structure, and origin of the earth as revealed by rocks, minerals, land forms, and the fossil record. Special attention is paid to the tectonic and biological history of the planet. GL101 Addresses GLE Learning Outcomes Natural Sciences Inquiry & Analysis and Technology Literacy; GL102 addresses Learning Outcomes Natural Sciences, Critical Thinking and Problem Solving.

GL115 Global Change: The Oceans Lab 4.0 Credits
History has shown that science provides a powerful methodology by which we as human beings can come to understand the natural world. Using this theme of global change – specifically, looking at the planet-wide changes now occurring in the oceans and looking at the link between these changes and changes in the atmosphere – students will become more familiar with some of the major scientific concepts relating to this set of issues, how these concepts have developed, and how scientists continue to revise these ideas. Students will be able to understand and interpret scientific information and be able to make reasoned decisions, as voting citizens, based on that information. The Oceans course will consider topics related to ocean origins, structure, sediments, water chemistry, atmospheric and oceanic circulation, waves, tides, coasts, and marine life. This course combines lab, lecture and discussion. Addresses GLE Learning Outcomes Natural Sciences, Inquiry & Analysis and Technology Literacy.

GL115L Global Change: The Oceans Lecture 0.0 Credits
History has shown that science provides a powerful methodology by which we as human beings can come to understand the natural world. Using this theme of global change – specifically, looking at the planet-wide changes now occurring in the oceans and looking at the link between these changes and changes in the atmosphere – students will become more familiar with some of the major scientific concepts relating to this set of issues, how these concepts have developed, and how scientists continue to revise these ideas. Students will be able to understand and interpret scientific information and be able to make reasoned decisions, as voting citizens, based on that information. The Oceans course will consider topics related to ocean origins, structure, sediments, water chemistry, atmospheric and oceanic circulation, waves, tides, coasts, and marine life. This course combines lab, lecture and discussion. Addresses GLE Learning Outcomes Natural Sciences, Inquiry & Analysis and Technology Literacy.

GL120 Global Change: Weather Climate Lab 4.0 Credits
Science is a process that strongly informs human choices that have global impacts. In this course, students will be guided by their own curiosity, because without curiosity there can be no science. Students who successfully finish this course will be able to: 1) critically research and understand the inter-relationship between global climate change and the atmosphere and human actions; 2) critically evaluate the validity of claims, positions, etc., made by businesses, government agencies, or other various groups using a systematic method (that is, the scientific method); 3) articulate and communicate, both individually and in a group setting, their position on important human global issues that have scientific concepts at their roots; and 4) recognize that science strongly informs these human social/political issues that have scientific concepts at their roots. Specific topics considered in this course include atmospheric chemistry, pressure and temperature systems, humidity and precipitation, cloud development, atmospheric circulation, weather forecasting, extreme weather

events, climate change, and air pollution. This course combines lecture, laboratory, and discussion. Addresses GLE Learning Outcomes Natural Sciences, Critical Thinking, and Problem Solving

GL120L Global Change: Weather Climate Lect 0.0 Credits

Science is a process that strongly informs human choices that have global impacts. In this course, students will be guided by their own curiosity, because without curiosity there can be no science. Students who successfully finish this course will be able to: 1) critically research and understand the inter-relationship between global climate change and the atmosphere and human actions; 2) critically evaluate the validity of claims, positions, etc., made by businesses, government agencies, or other various groups using a systematic method (that is, the scientific method); 3) articulate and communicate, both individually and in a group setting, their position on important human global issues that have scientific concepts at their roots; and 4) recognize that science strongly informs these human social/political issues that have scientific concepts at their roots. Specific topics considered in this course include atmospheric chemistry, pressure and temperature systems, humidity and precipitation, cloud development, atmospheric circulation, weather forecasting, extreme weather events, climate change, and air pollution. This course combines lecture, laboratory, and discussion. Addresses GLE Learning Outcomes Natural Sciences, Critical Thinking, and Problem Solving

GL205 Environmental Geology Lab 4.0 Credits

Provides a broad overview of the environmental impacts associated with resource extraction and use, with soil use, and with water use. Particular attention is paid to the roles of human population growth and growth in per capita consumption in these various environmental impacts. Prerequisite: GL101 or ES101 or ES103.

GL205L Environmental Geology Lecture 0.0 Credits

Provides a broad overview of the environmental impacts associated with resource extraction and use, with soil use, and with water use. Particular attention is paid to the roles of human population growth and growth in per capita consumption in these various environmental impacts. Prerequisite: GL101 or ES101 or ES103.

MT102 Basic College Mathematics 3.0 Credits

This course introduces basic, introductory mathematics required to be successful in other courses in Math, Sciences, Health Sciences, Computer Information Systems, Business, Economics, and other fields. With the focus on fundamental concepts and problem-solving skills, the course emphasizes solving real-world, practical problems. Technology tools are utilized where appropriate and available. Open to students from any major. Offered Fall term.

MT104 Contemporary Mathematics 3.0 Credits

This course aims to cultivate an understanding of mathematical reasoning, promote quantitative literacy, and develop problem solving skills by aiding the student in stating problems clearly, sorting out the relevant from the irrelevant, abstracting common properties from individual situations, and arguing coherently. Addresses GLE Learning Outcomes Mathematics, Problem Solving and Quantitative Literacy. Prerequisite: varies, depending upon prior mathematical background.

MT151 College Algebra 3.0 Credits

Develops manipulative algebraic skills and mathematical reasoning required for further study and use in mathematical modeling. Emphasis is placed on the understanding of mathematical concepts, functions, and their graphs. College Algebra addresses GLE Outcomes Mathematics (MT), Quantitative Literacy (QL), and Problem Solving (PS).

MT211 Discrete Mathematics 3.0 Credits

Provides an introduction to the mathematics of computing. Concrete topics include number systems, sets, functions, relations, and elementary Boolean Algebra. An exposure to abstract thinking is gained through the study of logic and proofs.

MT221 Calculus I - lab 4.0 Credits

The real power of calculus, the Fundamental Theorem of Calculus, is developed early in the course. A combination of the intuitive and theoretical approaches to the fundamental concepts of single variable calculus is used throughout. Prerequisite: four years of high school mathematics. Addresses GLE Learning Outcomes Mathematics (MT), Problem Solving (PS) and Quantitative Literacy (QL).

MT221L Calculus I - lecture 0.0 Credits

The real power of calculus, the Fundamental Theorem of Calculus, is developed early in the course. A combination of the intuitive and theoretical approaches to the fundamental concepts of single variable calculus is used throughout. Prerequisite: four years of high school mathematics. Addresses GLE Learning Outcomes Mathematics (MT), Problem Solving (PS) and Quantitative Literacy (QL).

MT222 Calculus II Lab 4.0 Credits

The real power of calculus, the Fundamental Theorem of Calculus, is developed early in the course. A combination of the intuitive and theoretical approaches to the fundamental concepts of single variable calculus is used throughout. Prerequisite: four years of high school mathematics.

MT222L Calculus II - lecture 0.0 Credits

The real power of calculus, the Fundamental Theorem of Calculus, is developed early in the course. A combination of the intuitive and theoretical approaches to the fundamental concepts of single variable calculus is used throughout. Prerequisite: four years of high school mathematics.

MT260 Statistics I 3.0 Credits

Collection, presentation, and interpretation of numerical data, frequency distributions, central tendency, dispersion, correlation, normal curve approximation, t-distribution, and chi-square. Emphasis is on hypothesis testing. Addresses GLE Learning Outcomes Mathematics (MT), Quantitative Literacy (QL), and Problem Solving (PS). Prerequisite: 3 years of high school mathematics or MT101 or MT151.

MT299 Independent Study in Mathematics 0.0 Credits

Independent Study-1-3 credits. Offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or Dean or Designee. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.

MT301 Introduction to Mathematical Proofs 1.0 Credit

Systematic development of the standard ingredients in a mathematical proof adequate to prepare students for reading and understanding proofs encountered in later coursework. Includes topics from Logic.

MT305 History of Mathematics 3.0 Credits

A study of the development of mathematics from the early Egyptian and Greek civilizations through the nineteenth century. There are three important components to the course: historical, biographical and mathematical. Students do mathematical problems of the times using the tools and knowledge appropriate for that period. Prerequisite: MT221.

MT311 Linear Algebra 3.0 Credits

Vector spaces, matrices, and their uses. Prerequisite: MT222 or permission of instructor.

MT315 College Geometry 3.0 Credits

Analysis of axiomatic systems. Euclidean and non-Euclidean as well as finite and infinite systems using axiomatic approaches. Prerequisite: MT222.

MT321 Calculus III 3.0 Credits

Advanced calculus, series, multiple integration, partial differentiation, differential equations. Prerequisite: MT222.

MT330 Intro to Differential Equations 3.0 Credits

Solution of elementary differential equations. How differential equations are used to model real-world processes. First-, second-, and higher-order linear differential equations. Prerequisite: MT222.

MT361 Modern Algebra I 3.0 Credits

A thorough study of finite, infinite, abelian, and cyclic groups. Cosets, normal subgroups, and factor groups. Homomorphisms, isomorphisms, and the Jordan-Holder Theorem. Prerequisite: MT222.

MT373 Probability & Mathematics Stats 3.0 Credits

Includes the fundamental concepts of probability, including conditional and marginal probabilities; discrete and continuous random variables, including the binomial; hypergeometric, Poisson, and normal random variables; mathematical expectations and moment-generating functions; and the applications of probability to such statistical topics as sampling distributions, confidence intervals, and/or tests of hypotheses. Prerequisite: MT222.

MT375	Introduction Operations Research	3.0 Credits
An introduction to the mathematics and applications of operations research, including a discussion of modeling, linear programming, integer programming, and network algorithms. Prerequisite: MT211 or MT222; MT311 recommended.		
MT380	Mathematics Seminar	3.0 Credits
An exploration of current issues and interesting problems in mathematics such as Chaos and Fractals, Game Theory, Number Theory, etc. Discussion, problem-solving and student presentations.		
MT381	Mathematics Seminar	3.0 Credits
An exploration of current issues and interesting problems in mathematics such as Chaos and Fractals, Game Theory, Number Theory, etc. Discussion, problem-solving and student presentations.		
MT399	Independent Study in Mathematics	0.0 Credits
Independent Study-1-3 credits. Offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or Dean or Designee. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.		
MT481	Senior Project	3.0 Credits
Required of all Mathematics majors. The student defines a problem or objective in consultation with a department advisor and proceeds with the research. The finished thesis or project is then submitted to and defended before a faculty panel. Prerequisite: senior standing.		
MT499	Independent Study in Mathematics	0.0 Credits
Independent Study-1-3 credits. Offers an opportunity to explore an area of study not included in the catalog listing of approved courses. The topic of an Independent Study should be selected and carefully designed by the student and faculty sponsor, and must meet with the approval of the Dean or Dean's designee. Normally, the student will be expected to have a cumulative grade point average of 3.00 and possess the appropriate background and interest to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar or Dean or Designee. Independent Study courses are assigned numbers of 299, 399 or 499, depending on the level of the course.		
NR001	Nursing Document Collection	0.0 Credits
Document collection required for NR490.		
PH101	General Physics I-Lab	4.0 Credits
Designed to show the science of physics as a broadly-based intellectual activity that has firm historical roots and profoundly influences our whole culture. Through lectures, demonstrations, problem-solving, and laboratory activities the students will learn the basic concepts of physics (using a historical, mathematical and scientific approach). First semester covers the kinematics and dynamics of motion, momentum, work, power and energy, thermodynamics and fluid dynamics. Second semester covers waves and sound, light and optics, electricity and magnetism, quantum mechanics, and nuclear physics. (The topics are selected and arranged to progress from the simple to more sophisticated concepts and problem-solving skills.) Prerequisite: high school algebra. PH101 addresses GLE Learning Outcomes Natural Sciences (NS), Critical Thinking (CT) and Inquiry & Analysis (IA); PH102 addresses GLE Learning Outcomes Natural Sciences (NS), Problem Solving (PS) and Technology Literacy (TL).		
PH101L	General Physics I - Lecture	0.0 Credits
Designed to show the science of physics as a broadly-based intellectual activity that has firm historical roots and profoundly influences our whole culture. Through lectures, demonstrations, problem-solving, and laboratory activities the students will learn the basic concepts of physics (using a historical, mathematical and scientific approach). First semester covers the kinematics and dynamics of motion, momentum, work, power and energy, thermodynamics and fluid dynamics. Second semester covers waves and sound, light and optics, electricity and magnetism, quantum mechanics, and nuclear physics. (The topics are selected and arranged to progress from the simple to more sophisticated concepts and problem-solving skills.) Prerequisite: high school algebra. PH101 addresses GLE Learning Outcomes Natural Sciences (NS), Critical Thinking (CT) and Inquiry & Analysis (IA); PH102 addresses GLE Learning Outcomes Natural Sciences (NS), Problem Solving (PS) and Technology Literacy (TL).		

PH102 General Physics II-Lab 4.0 Credits
 Designed to show the science of physics as a broadly-based intellectual activity that has firm historical roots and profoundly influences our whole culture. Through lectures, demonstrations, problem-solving, and laboratory activities the students will learn the basic concepts of physics (using a historical, mathematical and scientific approach). First semester covers the kinematics and dynamics of motion, momentum, work, power and energy, thermodynamics and fluid dynamics. Second semester covers waves and sound, light and optics, electricity and magnetism, quantum mechanics, and nuclear physics. (The topics are selected and arranged to progress from the simple to more sophisticated concepts and problem-solving skills.) Prerequisite: high school algebra. PH101 addresses GLE Learning Outcomes Natural Sciences, Critical Thinking and Inquiry & Analysis; PH102 addresses GLE Learning Outcomes Natural Sciences, Problem Solving and Technology Literacy.

PH102L General Physics II- Lecture 0.0 Credits
 Designed to show the science of physics as a broadly-based intellectual activity that has firm historical roots and profoundly influences our whole culture. Through lectures, demonstrations, problem-solving, and laboratory activities the students will learn the basic concepts of physics (using a historical, mathematical and scientific approach). First semester covers the kinematics and dynamics of motion, momentum, work, power and energy, thermodynamics and fluid dynamics. Second semester covers waves and sound, light and optics, electricity and magnetism, quantum mechanics, and nuclear physics. (The topics are selected and arranged to progress from the simple to more sophisticated concepts and problem-solving skills.) Prerequisite: high school algebra. PH101 addresses GLE Learning Outcomes Natural Sciences, Critical Thinking and Inquiry & Analysis; PH102 addresses GLE Learning Outcomes Natural Sciences, Problem Solving and Technology Literacy.

PTH506A Intro Professional Dvlp Patient Edu 1.0 Credit
 This course provides an introduction to the history of physical therapy, the principles of ethics, professional behavior, legal issues and cultural competency. In preparation for clinical experiences, the student is introduced to the roles and responsibilities of the physical therapist in practice, the profession, the community, including the principles of teaching and learning, patient education, and documentation. Prerequisite: Enrollment in the Doctor of Physical Therapy program.

PTH508A Neuroanatomy 4.0 Credits
 This course provides an integration of neuroanatomy, neurophysiology, and neuropsychology with an emphasis on how the sciences help us to understand human behavior and movement. A foundation is developed for understanding neural control of various functions but with a concentration on the control of movement. Prerequisite: Successful completion of prior coursework.

PTH511A Mgmt of the Pedi & Adolesct Patient 4.0 Credits
 This course explores the management of the pediatric/adolescent patient. Content includes examination, evaluation, diagnosis, prognosis, intervention, and measurement of outcomes as they relate to the 0-21-year population. Topics of normal/abnormal development, standardized testing, and use of a team approach are investigated. Evidence based practice, clinical cases, and The Guide to Physical Therapist Practice are implicit aspects of the course. Prerequisite: Successful completion of prior coursework.

PTH523A Anatomy 5.0 Credits
 This course provides the foundation for understanding gross anatomy as it relates to the practice of physical therapy. Using a regional approach, this course emphasizes the musculoskeletal structures of the appendicular and axial skeleton and includes visceral anatomy. Active learning and problem solving are the primary teaching methods used in the laboratory component, which may include plastinate prosecutions of human cadavers, interactive computer programs or models. Prerequisite: Enrollment in the Doctor of Physical Therapy program

PTH528A Kinesiology 5.0 Credits
 This course applies anatomy and biomechanics of the neuromuscular and articular systems in normal and abnormal conditions of the head, neck, pelvic girdle, upper/lower extremities and spine. It includes surface anatomy, biomechanics, peripheral, and spinal joint mobilization, clinical palpation, and manual muscle testing. Biomechanical principles underlying clinical analysis of posture and gait will also be included. The format will be lecture, case-based application, demonstration, and laboratory practice. Prerequisite: Enrollment in the Doctor of Physical Therapy program.

PTH543A Neurological Clinical Management II 4.0 Credits
 This course is the second within a series of two neurological courses specific to PT management of patients with neurological deficits. It is a direct extension of PTH 540A (Neuro Clinical Management I), continuing with diagnoses along the neural axis, progressing from the central nervous system and moving to more of a focus on peripheral nervous system dysfunction. Students will continue to develop skills in examination, evaluation, and interventions for individuals with movement dysfunction due to neurological deficits. Emphasis

will be placed on synthesis of information gathered from use of the ICF to develop an appropriate plan of care for each condition covered. Students will continue to utilize current evidence to inform their decisions. Prerequisite: Successful completion of prior coursework.

PTH616 Integrated Clinical Experience (PY2) 0.0 Credits

This course is an integrated clinical experience that will occur throughout the didactic curriculum. It is a weekly clinical experience with Franklin Pierce's pro bono clinic that coincides with a classroom requirement devoted to preparation for terminal full-time experiences. Similar to the didactic curriculum, this is a hybrid experience with both live- and virtual patient encounters. It provides each student with an opportunity to work with skilled clinicians evaluating and treating patients/clients with varied diagnoses and disabilities. Prerequisite: Successful completion of prior coursework.

PTH617 Integrated Clinical Experience (PY) 1.0 Credit

This course is an integrated clinical experience that will occur throughout the didactic curriculum. It is a weekly clinical experience with Franklin Pierce's pro bono clinic that coincides with a classroom requirement devoted to preparation for terminal full-time experiences. Similar to the didactic curriculum, this is a hybrid experience with both live- and virtual patient encounters. It provides each student with an opportunity to work with skilled clinicians evaluating and treating patients/clients with varied diagnoses and disabilities. Prerequisite: Successful completion of prior coursework.

PTH635A Advanced Interventions 3.0 Credits

This course explores a variety of advanced orthopedic interventions within the field of physical therapy practice. Topics may vary based upon student interest. Modules of advanced treatment techniques are presented and practiced. The course includes lectures and hands on lab experience. Prerequisite: Successful completion of prior coursework. Prerequisites: Successful completion of all prior Physical Therapy courses.

PTH690 Comprehensive Exam 1.0 Credit

Each student is required to show comprehensive competency by completing a Comprehensive Practical Examination before moving onto the full-time clinical setting at the end of Term 6. During Term 6, students are given opportunities to practice these skills through case based and problem-based activities. All coursework in Term 6 emphasizes critical thinking and clinical decision making. The faculty in this term work together to provide opportunities in this course to work in areas of difficulty identified in the other courses. Prerequisite: Successful completion of prior coursework.

PTH695 Licensure Prep 1.0 Credit

This course is designed to assist students in the preparation for taking the Licensure Examination at the end of their program. In PTH 610 students take the ScoreBuilders assessment and create a plan of study for the comprehensive practical examination at the end of Term 6. The student takes diagnostic tests during the clinical experiences. The tests determine areas of strengths and weaknesses in the student knowledge. Individualized study plans are reviewed with the instructor and modified during the clinical phase of the program. Prerequisite: Successful completion of prior coursework.

PUBH101 Intro Pub Health & Health Service 3.0 Credits

Introduction to Public Health and Health Services provides an introduction into the tools needed to understand the basic science of public health, the biomedical basis of public health, including infectious disease transmission and containment. It explores the societal and behavioral determinants of health, impact of the environment on health, role of medical care system in meeting the needs of the population, and population level interventions aimed at improving and promoting health. Challenges faced by public health in the United States will be examined. Fall of each year

PUBH102 History of Public Health 3.0 Credits

The History of Public Health seeks to provide an understanding of the social context and biological determinants of health and disease through a chronological journey from Greco-Roman times through the 21st century. It will trace the changing urban and industrial infrastructure and their relationship to late nineteenth and early twentieth century concerns about tuberculosis, industrial illness and chronic disease. It will examine the relationship between humans and the environment, the role of urbanization, the shifting interpretation of disease causation, and the problems of measuring the impact of public health on the health status of the population. Prerequisite: PubH101

PUBH201 Public Health Biology 3.0 Credits

Explores the biological foundation of chronic and infectious diseases including cardiovascular disease, diabetes, and respiratory diseases. An overview of infectious disease epidemiology; types of pathogens; the immune system and response to pathogens; treatment, prevention, control of infectious diseases; and the role humans' play in the evolution of infectious diseases will be examined. Prerequisite: BI101 and BI102

PUBH202 Introduction to Global Health

3.0 Credits

his course will explore major global health issues emphasizing a multidisciplinary approach to understanding global health challenges as they occur both within and outside the borders. The course will examine global health from social, behavioral, economic, political, cultural, and environmental perspectives. The course covers the language of global health along with topics such as socioeconomic determinants of health, chronic diseases and aging, environmental context of health, infectious diseases, major global initiatives for disease prevention and health promotion, global nutrition, mental health, culture and health, health systems and inequity, globalization and health, and global health progress and priorities. Emphasis will be placed on primary prevention, as well as the management of patients with health conditions. Addresses GLE Learning Outcomes Social Sciences (SS), Information Literacy (IL), and Inquiry and Analysis (IA).

PUBH204 Internship in Global Health

1.0 Credit

This course will offer students an international learning experience dealing with health issues in an emerging country as well as an opportunity to experience the advantages of studying at St. George's undergraduate School of Arts and Sciences and on a university medical school campus. Students will have an opportunity for in-service involvement in health-related experiences on the Island of Grenada, including participating in community service projects such as blood drives, blood pressure screening, blood glucose testing, and drug testing. In addition, students will gain the experience of shadowing doctors and nurses in the hospital, participating in laboratory activities and workshops and observing smoking cessation counseling. Students will also have the opportunity to explore the customs, culture and lifestyle of the people of West Indies. The internship course is offered at St George's University in Grenada following the Spring semester. Prerequisite: PUBH202

PUBH303 Biostatistics

3.0 Credits

This course covers the statistical concepts related to the practice of public health: descriptive statistics; design of public health research studies; probability; sampling; statistical distributions; confidence intervals; hypothesis testing; comparison of means and proportions; chi-squared tests; one-way ANOVA; simple regression; and multiple linear regression. The course also uses the SPSS statistical software program and includes many applications of statistics to public health and medical studies, emphasizing concepts and interpretation over formulas.

PUBH310 Fndn of Environ Health Sciences

3.0 Credits

Provides a broad overview of some of the most important and current challenges to human health from environmental and occupational risk factors while teaching the basic knowledge and multi-disciplinary skills used to assess, control, and prevent them. Environmental health addresses all the physical chemical and biological factors external to a person, and all the related factors impacting behaviors. It encompasses the assessment and control of those environmental factors that can potentially affect health. It is targeted towards preventing disease and creating health-supportive environments" (WHO 2014). This course is appropriate for students who are interested in understanding and preventing diseases occurring as a result environmental degradation leading to unsafe water, food, air, as well as the built and workplace environments. The course discusses human and wildlife diseases that result from human use of the environment, their causes, risk assessment and prevention. This course is writing intensive. Prerequisites: Either PubH201, BI102, or ES104

PUBH313 Psych/Be/Social Issue Public Health

3.0 Credits

This course is intended to provide students with a foundation in psychological, behavioral, and social science theory in the context of public health research and practice. The content of this course will provide exposure to a broad range of theories and frameworks commonly employed in the field of public health for understanding health behaviors. These theories will be discussed using examples of their applications to numerous public health problems including, but not limited to, tobacco use, diet, exercise, obesity, HIV/AIDS, violence, cancer, cardiovascular diseases, diabetes, environmental hazards, and global health. This course is writing intensive.

PUBH414 Senior Capstone Course

3.0 Credits

The Senior Capstone course is an opportunity for students to work on public health practice projects that are of particular interest to them. The goal is for students to synthesize, integrate and apply the skills and competencies they have acquired to a public health problem that approximates a professional practice experience. Completion of the senior capstone course requires both written and oral components. This course is restricted to all public health majors enrolled in the BS degree program and requires senior level standing. Students may opt to enroll in the course in either the fall or spring semester of their senior year only with approval of the capstone instructor. The course is done under the direction of a faculty member, the capstone instructor.

PS

CAEL100 Prior Learn Assess Theory Practice

3.0 Credits

Prior Learning Assessment Theory and Practice will help students identify areas of learning they may want to have evaluated for college-level equivalency. The course will also guide students through the preparation and compilation of all components required for the

evaluation of a portfolio or prior learning through Learning Counts. Students will use critical reflection skills to rethink the value of their learning and its implications for future learning. Adult learning theory, models, and concepts will be discussed and applied to case studies. CAEL 100 is facilitated by an instructor who provides guidance for the student in preparing his or her portfolio-based request for credit. Successful completion of CAEL 100 will result in a credit recommendation of three lower-level credits for the course itself.

EMSP300 Leadership and Decision Making 3.0 Credits

Course provides the student with knowledge, tools and skills required for transitional leadership and management. The course focuses on the transitioning role from simple supervisory roles to development of leadership and management techniques related to motivation, teamwork and effective communication. Students will learn how to apply basic leadership principles, and develop leadership strategies. Students must have completed a Paramedic certification prior to registering for this course. Students may not transfer a course in substitution for EMSP 300 – Leadership and Decision-Making.

EMSP301 EMS Planning and Development 3.0 Credits

This course provides an overview of systems, management and administrative functions required of EMS managers including: planning, directing, budgeting, staffing and evaluation. The course provides the history of EMS and the evolution of theories and concepts that define contemporary systems and organizations. Emphasis is on system components, their integration and the roles and responsibilities of leadership. Prerequisite: EMSP 300.

EMSP302 Health Informatics 3.0 Credits

This course introduces the role of integrative health care practices with computer technologies and information science to identify, gather, process and manage information. Technology-based health applications that support clinical, administrative, research and educational decision-making are emphasized.

EMSP303 Med Serv Oper & Pers Man 3.0 Credits

This course examines recruitment, management and retention of personnel and the influence of effective personnel management on staffing and operational success in a medical services or health care setting.

EMSP304 Public Health Emergencies 3.0 Credits

Health care leaders and first responders must prepare for any situation that threatens public health, as well as the impact of disasters on personnel. This course highlights some the primary types of emergencies health care leaders and first responders are likely to encounter. Legal, political and regulatory perspectives are explored in the context of effective systems development, operational planning and engagement of multi-professional teams.

EMSP305 Risk Management Prac in Health Serv 3.0 Credits

This course examines the reduction and prevention of risks associated with the administration of health services. Human resource management, workplace safety, delivery of services to patients and the community, ethical considerations and clinical proficiencies are examined.

EMSP306 Mobile Integrated Healthcare 3.0 Credits

EMS agencies are partnering with hospitals, primary care physicians, nurses and mental health and social services providers on innovative programs that navigate patients to the right level of care. The goal is to lower costs, improve care and enable EMS practitioners to use their skills and resources to improve pre-hospital and post-hospital care. This course will explore emerging trends, strategies and structures impacting the role of EMS personnel.

EMSP320 Emergency Communications 3.0 Credits

This course examines communication responsibilities, essential components of public safety communications, communications centers in organizations, mobile communications and the role of leadership in public communications in disaster or emergency related situations.

EMSP403 EMS Integrated Seminar 3.0 Credits

This capstone course will incorporate key elements of system design for Emergency Medical Services following evidence-based practices. Students will complete a proposed project plan that emphasized design influenced by research and elements of earlier coursework. Prerequisites: Senior standing and completion of core requirements.

GLE103 Career Image, Planning & Management 3.0 Credits

In today's world of work, it is critical that students understand the dynamics of the employment marketplace and the importance of self-direction. This course will focus on self-assessment, managing personal and professional change, exploring various career options,

conducting an effective job campaign, enhancing work performance and maintaining a balance between work and family life. Students will gain skills in self-awareness, networking, portfolio construction, resume writing, interviewing and planning and directing their own careers. Students will develop a degree and career map that identifies learning outcomes essential to their academic and professional success. Addresses GLE Learning Outcomes Career Exploration (CX) and Applied Learning (AL).

GLE403 Integration Seminar

3.0 Credits

The Integration Seminar is a capstone course designed to validate learning outcomes defined in GLE103. This is a reflective course intended to examine the learner's journey to degree completion and set the stage for work, profession and continued learning. Addresses GLE Learning Outcomes Career Exploration (CX), Inquiry & Analysis (IA) and Information Literacy (IL). Course fee.

HU211 Death & Dying

3.0 Credits

This course is designed to introduce students to basic concepts of death and dying across the lifespan. In addition, students are challenged to examine their own personal attitudes and beliefs toward the issues discussed, including but not limited to psychological, medical, legal, ethical, religious, and cultural aspects of death, dying, and bereavement. It is designed to help students understand the many dimensions of death and dying.

HU220 Creating a Family

3.0 Credits

This course examines the process of contraception, conception, fetal development and human birth. It emphasizes the emergent technologies of human reproduction, assisted fertility technologies, prenatal diagnosis and treatment, as well as alternative means of family formation, including same sex couples, single parents, blended families and adoption. While this course will focus on the social, cultural, political and historical context for development and application of these technologies, there will be an emphasis on women from underserved populations.

HU489 Senior Human Services Seminar

3.0 Credits

This capstone course provides an integrative practicum/research experience in the field of human services. The major objective of this course is to examine, through research and analysis, the practice models used, the practical skills and challenges of working in various human service settings that have been identified and partially explored in the courses taken for the human services major and to examine issues related to students' future work in the profession. Prerequisites: Senior standing, and PS340

HU495 Human Services Internship

3.0 Credits

Qualified students work under supervision in a hands-on learning environment in the field to further their skills in human service work. Placements are limited, but opportunities are accorded students of exceptional ability. Prerequisites: 18 credit hours in human services or sociology, junior or senior standing, permission of advisor, acceptance by a sponsoring institution, and a 2.50 GPA. The GPA requirement may be waived with permission of the Human Services Department faculty.

NR009 Nursing Document Collection

0.0 Credits

Document collection for NR690.

NR200 Introduction to Holistic Health

3.0 Credits

This course introduces the student to holistic health which is an approach to life that seeks harmony between mind, body, spirit, and environment. Student will have the opportunity to perform a self-assessment and identify measures to improve their overall health. The student will explore practices such as exercise, nutrition, and mind body connection and their impact on health. Complementary and alternative therapies will also be discussed. This course supports the Franklin Pierce University Human Resources Wellness Mission Statement.

NR300 Transition to Baccalaureate Nursing

3.0 Credits

This course introduces the baccalaureate nursing student to the issues and trends fundamental to nursing practice today, including social, political, economic, and professional implications of practice. Topics that will be discussed include an overview of professional nursing roles, socialization into professional practice, theoretical bases for nursing practice, health policy, health promotion, holistic care, cultural competency, health care disparities, and issues related to the practice environment.

NR320 Evidence Based Practice in Nursing

3.0 Credits

This is an introductory course on nursing research methods intended to provide the baccalaureate nursing student with a foundation for critiquing and utilizing research findings in practice. The course emphasis is on reading research reports, critically analyzing research findings, and applying the best evidence in clinical practice. Both qualitative and quantitative research models are discussed. Course content includes overview of problem statement/question, purpose, theoretical framework, research methods, sample selection, data

collection, data analysis and interpretation of findings. At the conclusion of the course, students are prepared to critique research related to health care, to use research findings to develop an evidence-based nursing practice, and work with expert researchers in the conduct of research.

NR330 Clinical Decision Making 3.0 Credits

This course explores strategies to assess the human experience and the response to health and illness. Through self-reflection, critical thinking, comprehensive case reviews, and holistic assessment, students enhance their clinical decision-making skills. Focus is on developing strategies to gather appropriate data, understanding client's responses, and developing a health diagnosis. Nurses formulate an evidence-based approach to clinical decision-making and individualized client interventions. Assessment data is related to the environment of the client, including both internal and external variables. Students integrate Jean Watson's theory to identify the degree of harmony within the body, mind and spirit. Specific areas of concentration include spiritual assessment, pain assessment, nutrition assessment, changes across the life span, cultural implications, health promotion and relationship-based care with a scientific, caring practice.

NR400 Hlth Policy Professional Nurse 3.0 Credits

This course examines the structure and function of healthcare delivery systems, and provides a framework for analysis of health care system quality, access, and cost from the perspective of professional nursing. Health and social policy at the community, state, federal, and international perspectives are discussed. The role of the professional nurse as advocate for health care policy change is emphasized. Students are provided with opportunities to participate in influencing health care policy.

NR420 Health Promotion Across Lifespan 3.0 Credits

The course is an in-depth study of health teaching, health promotion, and disease prevention in diverse populations across the life span. It builds on the goals of Healthy People initiative and is predicated on a working knowledge of growth and development, cultural awareness, socioeconomic forces, and health assessment. Course content includes diversity of health beliefs, health promotion and belief models, assessing individuals, families, and communities, barriers to healthy behaviors, at risk populations, and health care education program development, implementation, and evaluation. The course is based on the creation by the nurse of a helping relationship characterized by presence, respect, mindfulness, and therapeutic use of self.

NR445 Comm Hlth Nurs:Ind & Family Client 3.0 Credits

This course introduces the concept of community-based nursing practice, nursing roles focusing on individuals and families. Students learn to located and use relevant data and apply common tools of levels of prevention, and health promotion and disease prevention strategies. Nursing as a caring and evidence-based science is applied to disease prevention and community health.

NR446 Comm Hlth Nur: Groups Population 3.0 Credits

This course introduces the concept of community or group as client. Methods of assessing a population, identifying trends and health related needs will be examined with emphasis on health promotion and disease prevention. Health disparities and vulnerable populations will be explored and their impact on communities. The role of the nurse in community disaster preparedness and response will be discussed.

NR490 Leadership in Professional Nursing 6.0 Credits

This course examines leadership concepts within the discipline of nursing, and provides a forum for the student to develop and enhance leadership skills while exploring leadership in the context of a caring nursing environment. In this capstone course of the RN-BS nursing program, learning is synthesized from the humanities, natural sciences, behavioral sciences, and the nursing domain, through seminar discussions and project development. Students will be required to register for and complete NR001-Nursing Document Collection in the term prior to taking NR490. Prerequisite: NR300, NR320, NR330, NR400, NR420, NR445, NR446, or Senior status with permission from the Academic Director.

SA

NT317 The Camino Seminar 3.0 Credits

The Camino Seminar – an interdisciplinary study of pilgrimage and of the Camino in particular and preparation for becoming a Camino pilgrim. Addresses GLE Learning Outcomes Social Science (SS) and Inquiry & Analysis (IA).

NT390 Washington Center 12.0 Credits

For students attending the Washington Center for Internships and Academic Seminars, located in the nation's capital.

NT394

Washington Center

3.0 Credits

For students attending the Washington Center for Internships and Academic Seminars, located in the nation's capital.

NT418

Camino Pilgrimage I

3.0 Credits

Part one of a walk/study course that takes a small group of students to Spain to study Spanish and the Camino intensively while immersed in the culture of Spain and on a faculty-guided long-distance walk through beautiful parts of southern France and northern Spain on the ancient Camino de Santiago de Compostela, one of the most popular pilgrimages in the world. The Camino Pilgrimage generally covers about 10-15 miles each day, and students carry their own belongings in a backpack and sleep in pilgrim hostels. Students work with one another by participating in learning activities together. Students keep a journal of their experiences, and produce a final reflection paper after they return in early November. Walking the Camino is an unforgettable personal journey steeped in European history and a rich spiritual tradition. Prerequisite: LS105, NT317. Addresses GLE Learning Outcomes Arts & Design (AD), Applied Learning (AL) and Experiential Learning (EL).

NT419

Camino Pilgrimage II

3.0 Credits

Part two of a walk/study course that takes a small group of students to Spain to study Spanish and the Camino intensively while immersed in the culture of Spain and on a faculty-guided long-distance walk through beautiful parts of southern France and northern Spain on the ancient Camino de Santiago de Compostela, one of the most popular pilgrimages in the world. The Camino Pilgrimage generally covers about 10-15 miles each day, and students carry their own belongings in a backpack and sleep in pilgrim hostels. Students work with one another by participating in learning activities together. Students keep a journal of their experiences, and produce a final reflection paper after they return in early November. Walking the Camino is an unforgettable personal journey steeped in European history and a rich spiritual tradition. Prerequisite: LS105, NT317. Addresses GLE Learning Outcomes Humanities (HM), Intercultural Knowledge (IK) and Teamwork (TW).

VP

COMM100

Communication, Media, and Society

3.0 Credits

Examines the roles of communication media in society, including the philosophy of mass mediation and the study of media effects on public issues, social values, and cultural tastes. Presents an historical overview of the main technologies of communication and surveys the discipline's most salient theoretical paradigms.

COMM110

Journalism 1

3.0 Credits

Students learn and practice basic skills essential to effective news writing. Ethics and current issues in journalism are discussed in depth.

COMM120

Introduction to Media Production

3.0 Credits

Designed to introduce students to the techniques of media production by familiarizing students with the basic operations of audio recording equipment, and single-camera video production equipment (camcorders and digital editing software). Each student will gain experience in the pre-production (planning, writing, scheduling, casting), production (shooting, recording), and post-production (editing, audio sweetening) of various single-camera genres. Fall, Spring.

COMM130

Introduction to Media Studies

3.0 Credits

Focuses on media literacy as a perspective from which we view media messages. It proceeds from the basic awareness that all media consumption is fundamentally an exercise in interpretation and leads up to the abilities to critically appreciate diverse media messages and to accept social responsibility for engagement with media producers. Addresses GLE Learning Outcome for Social Sciences (SS), Critical Thinking (CT) and Information Literacy (IL).

COMM200

Rhetoric and Society

3.0 Credits

This course provides an introduction to the roots of modern public communication by exploring three basic questions: How do we come to hold our beliefs? How are we persuaded to maintain our beliefs? How are we persuaded to change them? After looking at the ancient quarrel between Plato and the Greek Sophists, the course traces the path of rhetoric into the twentieth century, examining rhetorical areas of social action such as mass movements, propaganda, cults, and brainwashing. Investigates the arguments made by those who claim the modern mass media hold great powers of persuasion over their audiences. Prerequisite: GLE 110 First Year Composition; every Spring.

COMM201

Independent Study

0.0 Credits

Independent Study (1-6 credits). Offers an opportunity to explore an area of study not included in the Catalog listing of approved courses. The topic of an Independent Study must be carefully designed by the student in conjunction with the faculty sponsor and must meet with the approval of the Dean or their designee. To be eligible for independent study, students typically must have a cumulative GPA of 3.00

or higher and possess the appropriate study habits and time management skills to pursue the proposed area of study. A “Proposal for Independent Study” form may be obtained from the Registrar’s website. Course numbers are assigned based on the level of difficulty of the course proposal. Prereqs: Sophomore standing and permission of instructor.

COMM202 Internship in Communication

0.0 Credits

Internship in Communication (1-6 credits). These field-based experiences allow students to work with media specialists in a professional setting to enhance their employment potential upon graduation, ideally with pre-approval by a Communication faculty internship advisor. An agreement is drawn up and approved by the student, the supervisor, the Communication faculty internship advisor, and the Dean or their designee. Students should consult with the faculty internship advisor on the academic requirements before starting the internship. The course grade is assigned by the Communication faculty internship advisor in consultation with the supervisor. Credits are based upon the work hours completed (minimum of 40 hours per credit); a maximum of 6 credits may be earned per term. A student may take up to 15 credits towards graduation credit. Prerequisites: completion of COMM210, COMM220, COMM221, and COMM230, or permission of faculty advisor.

COMM210 Journalism 2

3.0 Credits

Students polish reporting and writing skills while exploring such topics as the “new media” and tackling journalism’s latest dilemmas. Prerequisite: COMM110

COMM211 Broadcast Journalism I

3.0 Credits

This introductory course has a strong focus on writing for radio and television news. Emphasis on researching and writing multiple radio and on-camera reads to strengthen these skills. Each student will also gain experience in digital photography, image editing, writing and producing digital slide shows. Prerequisite: COMM110 and COMM120, or permission of instructor.

COMM221 Multi-Camera Production

3.0 Credits

This intermediate course is designed to further the students’ understanding of studio-based video production. It focuses on honing the students’ abilities to produce, direct, and crew multi-camera television productions. The students will create two television shows, and take them from conception to “on-air” delivery in a live-to-tape format. By working at various crew positions the student will learn both the technical duties and the group dynamics that go into producing successful programs. Prerequisite: COMM120 or by permission of instructor

COMM230 Interpersonal Communication

3.0 Credits

Focuses on face-to-face communication, its distinct aspects, and the ways in which it is affected by an increasingly mass-mediated cultural environment. The course assists students in improving their own interpersonal communication skills and relationships through specialized collaborative learning exercises. Addresses GLE Learning Outcomes Social Sciences (SS), Critical Reading (CR), Critical Thinking (CT) and Teamwork (TW).

COMM231 Diversity and Media

3.0 Credits

This course examines the relationship of media and society with regard to issues of diversity, and corresponding representations. The history of stereotyping in the media, and its effects on viewers, will be explored. Addresses GLE Learning Outcomes Social Sciences (SS), Information Literacy (IL) and Critical Thinking (CT)

COMM232 Understanding Film

3.0 Credits

Examines film as a cultural text, focusing on aspects such as genre, movement, and style, and elements such as scriptwriting, story structure, character development, cinematography, editing, and sound. Students will examine how each of these elements contributes to influencing the viewing experience. Films screened are primarily classic American films, but current Hollywood, experimental, or international films may also be included. Addresses GLE Learning Outcomes Arts and Design (AD), Oral Communication (OC), and Creative Thinking (CV). Prerequisite: GLE110.

COMM234 Film Genres

3.0 Credits

This course examines the development and significance of the concept of genre as it informs film. It explores the importance of film genres, and how culture as well as commerce affects artistic expression. . It explores the antecedents and development of film genres, as well as their form, narrative structure, visual elements, and conventions and tropes. In addition, it explores broader film concepts such as mise-en-scene, subjectivity, gaze, and spectatorship, in context of genre study. Addresses GLE learning outcomes Arts and Design (AD), Oral Communication (OC), and Creative Thinking (CV).

COMM235 Intercultural Communication

3.0 Credits

This course exposes students to theories and concepts with the field, and fosters understanding of key differences between cultures. It examines how intercultural interactions affects identities of people, and their relationships interpersonally and globally. Addresses GLE Learning Outcomes Social Sciences (SS), Critical Reading (CR), Critical Thinking (CT), and Intercultural Knowledge (IK).

COMM240 Public Speaking

3.0 Credits

This course is designed to build confidence in oral skills by applying the principles of effective presentations in various situations. Students gain experience with formal speaking, group interaction, and performance appraisal. Non-verbal communication, listening skills, and the use of technology such as Power Point presentations are discussed in conjunction with methods of oral delivery. Prerequisite: Sophomore Status. Addresses GLE Learning Outcomes: Arts & Design (AD), Oral Communication (OC), and Applied Learning (AL) Fall, Spring

COMM301 Independent Study in Communication

0.0 Credits

Independent Study in Communication (1-6 credits). Offers an opportunity to explore an area of study not included in the Catalog listing of approved courses. The topic of an Independent Study must be carefully designed by the student in conjunction with the faculty sponsor and must meet with the approval of the Dean or their designee. To be eligible for independent study, students typically must have a cumulative GPA of 3.00 or higher and possess the appropriate study habits and time management skills to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar's website. Course numbers are assigned based on the level of difficulty of the course proposal. Prereqs: Sophomore standing and permission of instructor.

COMM302 Internship in Communication

0.0 Credits

Internship in Communication (1-6 credits). These field-based experiences allow students to work with media specialists in a professional setting to enhance their employment potential upon graduation, ideally with pre-approval by a Communication faculty internship advisor. An agreement is drawn up and approved by the student, the supervisor, the Communication faculty internship advisor, and the Dean or their designee. Students should consult with the faculty internship advisor on the academic requirements before starting the internship. The course grade is assigned by the Communication faculty internship advisor in consultation with the supervisor. Credits are based upon the work hours completed (minimum of 40 hours per credit); a maximum of 6 credits may be earned per term. A student may take up to 15 credits towards graduation credit. Prerequisites: completion of COMM210, COMM220, COMM221, and COMM230, or permission of faculty advisor.

COMM310 Convergent Journalism

3.0 Credits

Students will gain the knowledge and practice to enable them to work in a variety of professional settings where an ability to write clearly and effectively, as well as the capacity to use visual and digital skills, are essential. Students will work in teams and individually as they practice the various roles found in the modern workplace. Prerequisites: COMM210 or permission of instructor

COMM311 Broadcast Journalism II

3.0 Credits

Concentrates on writing to video, fundamentals in gathering sound and shot selection for news video, producing video reporter-packages, voice-overs, and enterprise reporting. Prerequisite: COMM211

COMM321 Single-Camera Production

3.0 Credits

This intermediate course is designed to further develop the students' conceptual and technical skills in single-camera video production. Students will take part in all stages of the production of ENG (Electronic News-Gathering) and EFP (Electronic Field Production) programs. Each student will gain experience in the pre-production (planning, writing, scheduling, casting), production (shooting, recording), and post-production (editing, audio sweetening) of various single-camera genres. Prerequisite: COMM220 and COMM221 or permission of instructor. Every other Spring Semester.

COMM323 Writing for the Electronic Media

3.0 Credits

Students learn how to write short-form messages for the broadcast media. Students write and critique radio and television news segments, public service announcements, and spot advertisements. Students also learn the basic script formats for longer form non-fiction and fiction programs. Prerequisite: COMM110 and COMM120, or permission of instructor.

COMM324 Audio Production

3.0 Credits

Designed as an introduction to the basic theories and practices of audio production. Exploration of basic production techniques for radio production and audio in lm/video and new electronic media through a series of production exercises and assignments designed as concept building blocks. Prerequisite: COMM221 or permission of instructor. Every other Fall Semester.

COMM330 Media Criticism**3.0 Credits**

Examines the most important methodologies currently being used to critique the mass media. The media are studied as social, cultural, and political commentary, as well as art, within the broad field of mass communication. Prerequisites: COMM120 or COMM130.

COMM333 Media and Culture**3.0 Credits**

Seeks to foster a greater appreciation and understanding of the impact that the mass media exert on society. Emphasizes especially the power of mediated imagery with regard to race, gender, and class and the ways in which media representation can serve to either reify or subvert existing practices of social stratification and control. Prerequisite: COMM130.

COMM334 Media Theory**3.0 Credits**

Engages specific models and concepts that guide both the production and the consumption of mass-mediated messages. To perfect media literacy skills, students will explore the body of research which describes the specific and cumulative effects that the mass media exert on individual media consumers and on society at large. Prerequisite: COMM130

COMM336 Gender and Media Representation**3.0 Credits**

This course is devoted to the critical analysis of representations of gender in normative mass media content. It explores the ways in which popular cultural representations reinforce, create, and challenge societal gender roles through the examination of various mediated forms from advertising and television to film and broadcast news coverage. Prerequisite: COMM 130 or permission of instructor.

COMM337 Children and the Media**3.0 Credits**

This course will explore the use of media in the U.S. by young audiences and will discuss the impact on children and teens. Students will examine research studies about media impact and how it relates to concerns of parents, teacher, and non-profit organizations. Prerequisite: COMM130 or permission of instructor.

COMM345 American Political Culture & Media**3.0 Credits**

This seminar is designed to provide students with an opportunity to develop a greater appreciation for, and deeper understanding of, the relationships among political culture, media ownership, media presentation and media consumption. Such appreciation is intended to enable a more developed awareness of the complexity of the relationships among political culture, media and ourselves and, in turn, enable us to become more purposeful and intentional in our relationship with those institutions. Prerequisites: COMM100 or SO101, or permission of instructor.

COMM400 Capstone in Communication**3.0 Credits**

Each student will spend a complete semester proposing, researching and creating a capstone project. Project may be a creative work (screenplay, film, animation, website), scholarly work (critical analysis paper, research paper), or other communication piece (series of online articles, other). Students may choose to create a project for a non-profit client. This capstone project will be presented publicly on campus. Additionally, the course provides the tools and skills needed for securing employment, such as résumé and cover letter writing, job searching, and interviewing skills. Seniors will also learn how to research, choose, and prepare for graduate school. Seniors will systematically examine, review, and finalize a portfolio of academic work. Prerequisite: senior standing. Offered every fall.

COMM401 Independent Study in Communication**0.0 Credits**

Independent Study in Communication (1-6 credits). Offers an opportunity to explore an area of study not included in the Catalog listing of approved courses. The topic of an Independent Study must be carefully designed by the student in conjunction with the faculty sponsor and must meet with the approval of the Dean or their designee. To be eligible for independent study, students typically must have a cumulative GPA of 3.00 or higher and possess the appropriate study habits and time management skills to pursue the proposed area of study. A "Proposal for Independent Study" form may be obtained from the Registrar's website. Course numbers are assigned based on the level of difficulty of the course proposal. Prereqs: Sophomore standing and permission of instructor.

COMM402 Internship in Communication**0.0 Credits**

Internship in Communication (1-6 credits). These field-based experiences allow students to work with media specialists in a professional setting to enhance their employment potential upon graduation, ideally with pre-approval by a Communication faculty internship advisor. An agreement is drawn up and approved by the student, the supervisor, the Communication faculty internship advisor, and the Dean or their designee. Students should consult with the faculty internship advisor on the academic requirements before starting the internship. The course grade is assigned by the Communication faculty internship advisor in consultation with the supervisor. Credits are based upon the work hours completed (minimum of 40 hours per credit); a maximum of 6 credits may be earned per term. A student may take up to 15 credits towards graduation credit. Prerequisites: completion of COMM210, COMM220, COMM221, and COMM230, or permission of faculty advisor.

COMM420 Advanced Media Production

3.0 Credits

Students propose extended video projects (dramatic, documentary, or experimental). Students then write, design, produce, direct, and post-produce their projects. Builds on skills learned in intermediate production courses. Prerequisite: COMM321.

COMM430 Advanced Media Studies Seminar

3.0 Credits

Focuses on the complex diversity of modern communication forms, their multiple levels of personal engagement, and resulting multi-dimensionality in self-conceptions that they demand of the individual. COMM130

DMD100 Intro to Digital Media Design

3.0 Credits

The course is an introduction to visual literacy, communication and its structures. The course will examine theories and concepts of perception, psychology, perspective, and elements of graphic and web design, photography, film and video, and interactive media. Students will be introduced to an understanding of the language, theory, and practice in these areas of digital media, while working to develop their ability to visualize, understand, analyze, critique and create content.

DMD105 Digital Design Foundations

3.0 Credits

This course introduces students to design principles and techniques through exercises, lectures, and projects. Digital Design Foundations covers the basics of image creation and editing, typography, page layout, the use of color, and basic web design. This course introduces three essential software programs: image editing, vector graphics, and web design software. In addition to exploring the basics of each program individually, students learn how to integrate them in stages culminating in a final, production-ready website.

DMD120 User Experience & Interface Design

3.0 Credits

The interface between everyday users and the World Wide Web has expanded beyond the browser window. User experience is the human experience and therefore must be mindful of how we navigate space, process information, and communicate with each other. This course delves deeper into the processes and technologies that serve as the building blocks of modern web design. As the availability and variety of internet-connected devices has grown, so too has the need to think beyond the desktop and deliver an effective, efficient, and satisfying user experience across screens of all shapes and sizes.

DMD200 Exploring Digital Storytelling

3.0 Credits

“Storytelling” is a concept common across digital media. This course introduces students to tools and skills such as design thinking as a way of deciding on the story or message, basic production and interface methods for creating the story, and the potential of different media as storytelling forms – all the while emphasizing writing as an essential device in preparing or executing most storytelling. This course will provide a common language and framework and provide a fundamental appreciation for the writing skills necessary in all areas. Pre-Reqs: DMD 100 Introduction to Digital Media Design

DMD205 Social Media, Ethics, IP, & Media

3.0 Credits

The Internet and the changes it has brought in the way we network with each other have challenged fluid legal jurisdictions and ethical boundaries. Students will study the application of intellectual property law, particularly copyright and patents, to social media and web media. Among the additional issues to be examined are data privacy and security, anonymous speech, social media and students, commercial speech and libel. Prerequisites: DMD100 and DMD110 or permission of instructor.

DMD220 Web Design

3.0 Credits

This course continues from DMD 120 where students developed UX/UI skills in the research, planning, prototyping, and testing stages of web design. Here, students continue the web design workflow and learn how to design, build, and launch custom websites. Students will explore complex web design concepts visually and by writing code. The course focusses on HTML, CSS and JavaScript; responsive web design; accessibility; flexbox; content management systems; and CSS grids. Course projects are built on teamwork and collaboration. Pre-Req: DMD 120.

DMD250 Intro to Data Visualization

3.0 Credits

Data presentation can be done creatively, combining a wide range of visual elements that aid in ready understanding. Students will use a variety of tools, which employ such devices as maps, photos and illustrations, as they become familiar with methods of data visualization. No coding or technical skills are needed to be successful in this course. Prerequisite DMD100 or instructor's permission.

DMD320 Application and Mobile Design

3.0 Credits

This course introduces students to design and development for mobile devices such as smart phones and tablets. We will focus on mobile web app versus native application design as well as fixed versus responsive web design. We will explore the creation of mobile apps and sites using prototyping tools and computer languages germane to all current mobile operating systems. Prerequisite - DMD120

DMD330 Social Media**3.0 Credits**

This course introduces students to a range of concepts and tools that will be essential to a meaningful exercise of social media in an emerging technologies environment. This course uses hands-on practice to explore such fundamental concepts as storytelling – which lies at the heart of all social media campaigns – by beginning the process of “personal branding.” The course will also investigate social media as an international phenomenon, including its political uses by people around the world.

DMD390 Internship in DMD**0.0 Credits**

Internship in DMD (1-4 credits). These field-based experiences allow students to work with DMD specialists in a professional setting to enhance their employment potential upon graduation. An agreement is drawn up and approved by the student, the on-site supervisor, the DMD faculty internship advisor, and the Dean or their designee. Students should consult with the faculty internship advisor on the academic requirements before starting the internship. The course grade is assigned by the DMD faculty internship advisor. Credits are based upon the work hours completed (minimum of 40 hours per credit). Prerequisite: junior standing, or permission of faculty advisor.

DMD400 Audio & Video for the Web**3.0 Credits**

Multimedia places a high demand on network connections and the internet and yet professional audio and video content is an essential part of today’s web experience. In this class, students learn how to properly optimize audio and video content for web consumption. Student will also explore the creation and editing of podcasts, web videos, original music and voice recording. Prerequisite: DMD 200 Exploring Digital Storytelling or Marketing Major/Minor or Advertising Minor. .

DMD410 Digital Media Design Portfolio**3.0 Credits**

This course is the culmination of the DMD major and will serve as a demonstration of the student’s successful achievement of skills essential for future employment, whether as an entrepreneurial individual or as member of a digital media team or in a digital media leadership role. Students will focus their efforts on selecting and improving projects from previous classes to ready them for portfolio presentation; developing their professional branding and identity system; and designing a self-promotional portfolio website. Prerequisite: DMD330

DMD490 Internship in DMD**0.0 Credits**

Internship in DMD (1-4 credits). These field-based experiences allow students to work with DMD specialists in a professional setting to enhance their employment potential upon graduation. An agreement is drawn up and approved by the student, the on-site supervisor, the DMD faculty internship advisor, and the Dean or their designee. Students should consult with the faculty internship advisor on the academic requirements before starting the internship. The course grade is assigned by the DMD faculty internship advisor. Credits are based upon the work hours completed (minimum of 40 hours per credit). Prerequisite: junior standing, or permission of faculty advisor.

FA101 Two-Dimensional Design**3.0 Credits**

An investigation of the fundamentals of design on a two-dimensional surface and within a rectilinear format. Central aspects of basic, compositional design such as unity, variety and balance, as well as the formal elements of design such as line, color and texture are explored and applied to solving problems of design. Addresses GLE Learning Outcomes Arts & Design, Creative Thinking and Problem Solving.

FA102 Introduction to Sculpture**3.0 Credits**

An investigation of basic design fundamentals associated with various three-dimensional materials. Positive and negative space, mass, volume and scale may be explored as well as an understanding of the organizing principles of design. Both figurative and non-figurative work will be explored. Addresses GLE Learning Outcomes Arts & Design (AD), Creative Thinking (CV) and Problem Solving (PS).

FA180 Foundations of Art**3.0 Credits**

Studies the major forms of art—architecture, sculpture, painting and graphic arts, and crafts—in terms of their elements, techniques and individual expression. By focusing on the nature of each of these forms separately, we will be able to observe that each form has its own set of rules which apply regardless of the culture or period in which a work was produced. Addresses GLE Learning Outcomes Arts and Design (AD), Applied Learning (AL) and Oral Communication (OC). Fall

FA183 History of Art**3.0 Credits**

This course surveys architecture, sculpture and painting from prehistoric times to the present, primarily in western art, with selected world cultures and stylistic traditions including Asian and African art. How did one style grow from another? Which cultures influenced one another? Which cultures have most strongly influenced the art of our culture? Addresses GLE Learning Outcomes Arts & Design (AD), Applied Learning (AL) and Oral Communication (OC)

FA201 Drawing I 3.0 Credits
An introduction to observational drawing methods and practices. Through the use of line, shape, form and value students will develop an ability to work with both analytical and expressive approaches to drawing. Subjects may include- still-life, landscape, interior space, and the figure. Common drawing media will be employed; these may include, graphite, charcoal, ink, and chalk. Addresses GLE Learning Outcomes Arts & Design (AD) and Creative Thinking (CV).

FA204 Watercolor Painting 3.0 Credits
This is an introductory course in the use of aqueous media. It will include the history and development of the medium as well as the variety of techniques and approaches. This will give students the techniques and visual vocabulary relevant to the use of this transparent painting medium. It will include the basics of color theory, color mixing and its use. The course will include lectures, readings, demonstrations, in and out of class work and critiques. Fulfills the GLE Learning Outcomes of Art and Design, Creative Thinking and Applied Learning.

FA205 East Asian Brush Painting I 3.0 Credits
The introduction to the art and discipline of sumi-e, Oriental Ink Painting, through the study of the four traditional subjects: orchid, bamboo, chrysanthemum and plum. Emphasis will be placed on acquiring skill with specific brush strokes, composition and concentration. Study and analysis of ancient and contemporary masterworks of Oriental painting will be included. For the beginning and continuing students of sumi-e. Addresses GLE Learning Outcomes Arts & Design, Applied Learning and Creative Thinking.

FA206 East Asian Brush Painting II 3.0 Credits
The introduction to the art and discipline of sumi-e, Oriental Ink Painting, through the study of the four traditional subjects: orchid, bamboo, chrysanthemum and plum. Emphasis will be placed on acquiring skill with specific brush strokes, composition and concentration. Study and analysis of ancient and contemporary masterworks of Oriental painting will be included. For the beginning and continuing students of sumi-e. Addresses GLE Learning Outcomes Arts & Design, Applied Learning and Creative Thinking.

FA217 Intro to Photographic Processes 3.0 Credits
An introductory level course that explores the art of photography including film and basic digital image making with an emphasis on the creative process in the context of the history of photography. The elements of camera operation, film development and composition will be learned through a series of assignments and critiques that will result in a portfolio of images presented as a portfolio at the end of the course. Students must provide their own fully adjustable (f/stops and shutter speeds) digital camera or adjustable 35 mm film camera. Addresses the GLE Learning Outcomes of Arts and Design (AD) and Creative Thinking (CV) and Applied Learning (AL).

FA221 Ceramics I 3.0 Credits
This course introduces students to the basic skills and creative process of making forms on the wheel and with hand-building techniques within the context of ceramic history and contemporary practice. The fundamentals of glazing and firing will be demonstrated and practiced. Students will complete a portfolio of finished pieces to be evaluated at the end of the semester. Addresses GLE Learning Outcomes Arts & Design (AD) and Creative Thinking (CV).

FA227 Photographic Processes II 3.0 Credits
This studio course builds on the digital and analogue photographic imaging processes learned in Introduction to Photographic Processes. Assignments synthesize approaches incorporating various imaging methods to produce a portfolio of analogue and/or digital images suitable for exhibition and/or publication. Students begin to develop a personal voice through research, synthesis and conceptual actualization. Prerequisite: FA217.

FA231 Painting I 3.0 Credits
Introduction to painting on paper, panels and stretched canvas. Characteristics, application and techniques of painting are emphasized along with methods of rendering space and forms in space. Subjects may include still life, landscape, the human form and genre. Addresses GLE Learning Outcomes Arts & Design (AD), Applied Learning (AL) and Creative Thinking, (CT)

FA235 Printmaking I 3.0 Credits
An introduction to the methods and materials of printmaking techniques: the art of image making using a plate or substrate to transfer an image to paper. This will include relief, collograph, etching, and computer-generated images for the development of unique multiples. The course will include the use of scanned and digitally altered images as a means for creating intaglio prints. Addresses GLE Learning Outcomes Arts and Design (AD), Applied Learning (AL) and Creative Thinking (CV).

FA251 Glassblowing I**3.0 Credits**

The art of free hand-blown glass. Traditional tools and techniques are used to transform molten glass into utilitarian and decorative objects.

FA302 Drawing II**3.0 Credits**

An expanded study of rendering of the still life, genre, landscape and human form which introduces foreshortening, forms in relation to space, and the expressive potential of form. Employing the elements of line and value, work will be executed in a variety of black and white and colored media. Prerequisite: FA201

FA303 Drawing III**3.0 Credits**

A further development toward mastering the methods and materials studied in Drawing I and II. Emphasis will be placed on developing original compositions through the study of old and modern masters. Prerequisite: FA302.

FA304 Drawing IV**3.0 Credits**

A further development toward mastering the methods and materials studied in Drawing I and II. Emphasis will be placed on developing original compositions through the study of old and modern masters. Prerequisite: FA302.

FA310 Photographic Processes III**3.0 Credits**

This studio course builds on the digital and analogue photographic imaging processes learned in Introduction to Photographic Processes. Assignments synthesize approaches incorporating various imaging methods to produce a portfolio of analogue and/or digital images suitable for exhibition and/or publication. Students begin to develop a personal voice through research, synthesis and conceptual actualization. Prerequisite: FA227.

FA322 Ceramics II**3.0 Credits**

Students will continue to practice basic skills of wheel-based and hand-built ceramic forms, focusing on sculptural and/or functional work, to develop excellence in craftsmanship and technical ability. The course will consist of lectures, critiques, demonstrations and work in and out of class. Glazing, glaze formulation and firing of finished work will be included. A portfolio of finished work will be evaluated at the end of the semester. Prerequisite FA221.

FA323 Ceramics III**3.0 Credits**

Further development of personal expression within the ceramic medium focusing on wheel based forms or hand-built forms. Course will include clay and glaze testing and formulation, and an understanding of kiln firing and design. This shall include a special project in addition to a final portfolio of finished work. Prerequisite: permission of instructor

FA324 Ceramics IV**3.0 Credits**

Further development of personal expression within the ceramic medium focusing on wheel based forms or hand-built forms. Course will include clay and glaze testing and formulation, and an understanding of kiln firing and design. This shall include a special project in addition to a final portfolio of finished work. Prerequisite: permission of instructor

FA332 Painting II**3.0 Credits**

A continuation of the study of basic painting, using oils and/or acrylics. Students are given the freedom to explore aspects of objective, non-objective and abstract painting, with emphasis given to applied theory. Prerequisite: FA231.

FA333 Painting III**3.0 Credits**

Further continuation of the study of painting with emphasis given to the development of painting techniques required for expressing personal vision and individual areas of interest. Prerequisite: permission of instructor.

FA334 Painting IV**3.0 Credits**

Further continuation of the study of painting with emphasis given to the development of painting techniques required for expressing personal vision and individual areas of interest. Prerequisite: permission of instructor.

FA335 Printmaking II**3.0 Credits**

An introduction to the methods and materials of printmaking techniques, including relief, collograph, dry point, and computer-generated images for the development of unique multiples. The course will include the use of scanned and digitally altered images as a means for creating intaglio prints. Printmaking I meets the requirement for K through 12 certification for Art Education majors. Printmaking II

will focus more closely on two or more methods of printmaking, and developing a cohesive series of editioned prints. Both black and white and color techniques will be covered. Prerequisite for level II: permission of instructor.

FA337 Printmaking III

3.0 Credits

Advanced study of the concepts and techniques of printmaking to include multi plate and the combining of techniques learned in Printmaking I and II. In Printmaking III, students will focus more deeply on one or more methods of printmaking: intaglio, relief or digital. An integration of images and techniques and research that allows for individual expression in the print medium will culminate in a portfolio of prints. Prerequisite: permission of instructor.

FA338 Printmaking IV

3.0 Credits

Advanced study of the concepts and techniques of printmaking to include multi plate and the combining of techniques learned in Printmaking I and II. In Printmaking IV, students will focus more deeply on one or more methods of printmaking: intaglio, relief or digital. An integration of images and techniques and research that allows for individual expression in the print medium will culminate in a portfolio of prints. Student will work independently to develop a series of prints that explore a mode of printmaking such as, Photopolymer, intaglio, collagraph or carved wood or linoleum blocks. Prerequisite: permission of instructor

FA352 Glassblowing I

3.0 Credits

The art of free hand-blown glass. Traditional tools and techniques are used to transform molten glass into utilitarian and decorative objects.

FA353 Glassblowing III

3.0 Credits

Continuation of Glassblowing II with more emphasis on sophistication of design and technique. Prerequisite: permission of instructor.

FA354 Glassblowing IV

3.0 Credits

Continuation of Glassblowing II with more emphasis on sophistication of design and technique. Prerequisite: permission of instructor.

FA405 Drawing V

3.0 Credits

Advanced study in traditional and contemporary drawing media and their relevant applications. Emphasis will be placed on developing a cohesive body of work in relation to student's personal objectives and understanding the relationship of this work to historical and contemporary drawing practices. Prerequisite: FA304.

GC201 Graphic Design I

3.0 Credits

An introduction to the basic concepts of graphic communications, with emphasis on the creative process and use of tools and techniques. Addresses GLE Learning Outcomes Arts & Design (AD), Creative Thinking (CV) and Oral Communication (OC).

GC302 Graphic Design II

3.0 Credits

Development of students planning to be designers. Application of design principles to reflect the range of assignments in a studio, agency, or in-house design situation. Students will start on the creation of an ongoing portfolio. Work created in this class as well as in other classes will be analyzed for inclusion. Prerequisite: GC201 and GC272 or permission of instructor.

GC320 Book Design

3.0 Credits

A studio seminar and lecture course to investigate the history, cultural differences, writing, designing, and production of books. Students will create books using a variety of bindings. At least one book will be entirely the student's own creation, including written text. Addresses GLE Learning Outcomes Arts & Design (AD), Creative Thinking (CV) and Oral Communication (OC).

ID103 Practicum Fitzwater Center I

1.0 Credit

This practicum is designed to provide students of any major with highly transferable and individualized experience in communication media technology, management, marketing and communication. The student will be actively involved in: - student media outlets, including PoliticsFitzU, The Pierce Arrow, WFPC-LP 105.3 FM, Fitzwater Productions, Ravens Sports Network (non-game coverage); and/or - the development and delivery of a broad range of Fitzwater Center programming, including but not limited to Constitution Day observances, The Presidency & The Press, IndieLens Pop-up film screenings, Fitzwater Honors events, podcast development, or video projects; and/or - professional partnerships that include the Granite State News Collaborative, NHPBS, Citizens Count, the Franklin Pierce Law Center at UNH, Radically Rural/The Keene-Sentinel and the Hannah Grimes Center for Entrepreneurship, and state civics organization. Under the direction of professional Fitzwater Center staff, and depending on the numbers enrolled, students will work as individuals or in small teams on one or more projects, acting in any number of appropriate roles, including but not limited to event planner, engagement specialist, writer, producer, on-air talent, and audio specialist. As the practicum begins, students will be exposed

to a broad range of opportunities for professional development; in a few weeks, they will self-select the skills and relevant projects they seek to focus on, including in management, technology and communication. The student must work a minimum of 40 hours per semester, primarily in the field but also in weekly production meetings. Prerequisite: None. Offered in Fall and Spring semesters, Winter Term, Summer Terms 1 and 2. May be repeated for general elective credit. Honors credit is available.

ID104 Practicum Fitzwater Center II

1.0 Credit

This practicum is designed to provide students of any major with highly transferable and individualized experience in communication media technology, management, marketing and communication. The student will be actively involved in: - student media outlets, including PoliticsFitzU, The Pierce Arrow, WFPC-LP 105.3 FM, Fitzwater Productions, Ravens Sports Network (non-game coverage); and/or - the development and delivery of a broad range of Fitzwater Center programming, including but not limited to Constitution Day observances, The Presidency & The Press, IndieLens Pop-up film screenings, Fitzwater Honors events, podcast development, or video projects; and/or - professional partnerships that include the Granite State News Collaborative, NHPBS, Citizens Count, the Franklin Pierce Law Center at UNH, Radically Rural/The Keene-Sentinel and the Hannah Grimes Center for Entrepreneurship, and state civics organization. Under the direction of professional Fitzwater Center staff, and depending on the numbers enrolled, students will work as individuals or in small teams on one or more projects, acting in any number of appropriate roles, including but not limited to event planner, engagement specialist, writer, producer, on-air talent, and audio specialist. As the practicum begins, students will be exposed to a broad range of opportunities for professional development; in a few weeks, they will self-select the skills and relevant projects they seek to focus on, including in management, technology and communication. The student must work a minimum of 40 hours per semester, primarily in the field but also in weekly production meetings. Prerequisite: None. Offered in Fall and Spring semesters, Winter Term, Summer Terms 1 and 2. May be repeated for general elective credit. Honors credit is available.

ID105 Practicum Ravens Sports Network I

1.0 Credit

This practicum is designed to provide students of any major with highly transferable experience in all aspects of live field production, from pre-production through production, as on-air talent, behind-the-scenes crew, or as an assistant producer/director. Through Ravens Sports Network, and under the direction of professional Fitzwater Center staff, students will work in teams of 4-6 to deliver professional-level livestreaming of Ravens Athletics to the FloCollege global platform, launched in 2024. As the semester begins, students will be exposed to a broad range of opportunities for professional development; at the end of the first month, they will self-select the skills they seek to focus on, including in management, technology and communication. The student must work a minimum of 40 hours per semester, primarily in the field but also in weekly production meetings. Prerequisite: None. Offered in Fall and Spring semesters, Winter Term, Summer Terms 1 and 2; post-regular season championship practicum possible. May be repeated for general elective credit. Honors credit is available.

ID106 Practicum Ravens Sports Network II

1.0 Credit

This practicum is designed to provide students of any major with highly transferable experience in all aspects of live field production, from pre-production through production, as on-air talent, behind-the-scenes crew, or as an assistant producer/director. Through Ravens Sports Network, and under the direction of professional Fitzwater Center staff, students will work in teams of 4-6 to deliver professional-level livestreaming of Ravens Athletics to the FloCollege global platform, launched in 2024. As the semester begins, students will be exposed to a broad range of opportunities for professional development; at the end of the first month, they will self-select the skills they seek to focus on, including in management, technology and communication. The student must work a minimum of 40 hours per semester, primarily in the field but also in weekly production meetings. Prerequisite: None. Offered in Fall and Spring semesters, Winter Term, Summer Terms 1 and 2; post-regular season championship practicum possible. May be repeated for general elective credit. Honors credit is available.

ID203 Practicum Fitzwater Center III

1.0 Credit

This practicum is designed to provide students of any major with highly transferable and individualized experience in communication media technology, management, marketing and communication. The student will be actively involved in: - student media outlets, including PoliticsFitzU, The Pierce Arrow, WFPC-LP 105.3 FM, Fitzwater Productions, Ravens Sports Network (non-game coverage); and/or - the development and delivery of a broad range of Fitzwater Center programming, including but not limited to Constitution Day observances, The Presidency & The Press, IndieLens Pop-up film screenings, Fitzwater Honors events, podcast development, or video projects; and/or - professional partnerships that include the Granite State News Collaborative, NHPBS, Citizens Count, the Franklin Pierce Law Center at UNH, Radically Rural/The Keene-Sentinel and the Hannah Grimes Center for Entrepreneurship, and state civics organization. Under the direction of professional Fitzwater Center staff, and depending on the numbers enrolled, students will work as individuals or in small teams on one or more projects, acting in any number of appropriate roles, including but not limited to event planner, engagement specialist, writer, producer, on-air talent, and audio specialist. As the practicum begins, students will be exposed to a broad range of opportunities for professional development; in a few weeks, they will self-select the skills and relevant projects they seek to focus on, including in management, technology and communication. The student must work a minimum of 40 hours per semester, primarily in the field but also in weekly production meetings. Prerequisite: None. Offered in Fall and Spring semesters, Winter Term, Summer Terms 1 and 2. May be repeated for general elective credit. Honors credit is available.

ID204 Practicum Fitzwater Center IV

1.0 Credit

This practicum is designed to provide students of any major with highly transferable and individualized experience in communication media technology, management, marketing and communication. The student will be actively involved in: - student media outlets, including PoliticsFitzU, The Pierce Arrow, WFPC-LP 105.3 FM, Fitzwater Productions, Ravens Sports Network (non-game coverage); and/or - the development and delivery of a broad range of Fitzwater Center programming, including but not limited to Constitution Day observances, The Presidency & The Press, IndieLens Pop-up film screenings, Fitzwater Honors events, podcast development, or video projects; and/or - professional partnerships that include the Granite State News Collaborative, NHPBS, Citizens Count, the Franklin Pierce Law Center at UNH, Radically Rural/The Keene-Sentinel and the Hannah Grimes Center for Entrepreneurship, and state civics organization. Under the direction of professional Fitzwater Center staff, and depending on the numbers enrolled, students will work as individuals or in small teams on one or more projects, acting in any number of appropriate roles, including but not limited to event planner, engagement specialist, writer, producer, on-air talent, and audio specialist. As the practicum begins, students will be exposed to a broad range of opportunities for professional development; in a few weeks, they will self-select the skills and relevant projects they seek to focus on, including in management, technology and communication. The student must work a minimum of 40 hours per semester, primarily in the field but also in weekly production meetings. Prerequisite: None. Offered in Fall and Spring semesters, Winter Term, Summer Terms 1 and 2. May be repeated for general elective credit. Honors credit is available.

ID205 Practicum Ravens Sports Network III

1.0 Credit

This practicum is designed to provide students of any major with highly transferable experience in all aspects of live field production, from pre-production through production, as on-air talent, behind-the-scenes crew, or as an assistant producer/director. Through Ravens Sports Network, and under the direction of professional Fitzwater Center staff, students will work in teams of 4-6 to deliver professional-level livestreaming of Ravens Athletics to the FloCollege global platform, launched in 2024. As the semester begins, students will be exposed to a broad range of opportunities for professional development; at the end of the first month, they will self-select the skills they seek to focus on, including in management, technology and communication. The student must work a minimum of 40 hours per semester, primarily in the field but also in weekly production meetings. Prerequisite: None. Offered in Fall and Spring semesters, Winter Term, Summer Terms 1 and 2; post-regular season championship practicum possible. May be repeated for general elective credit. Honors credit is available.

ID206 Practicum Ravens Sports Network IV

1.0 Credit

This practicum is designed to provide students of any major with highly transferable experience in all aspects of live field production, from pre-production through production, as on-air talent, behind-the-scenes crew, or as an assistant producer/director. Through Ravens Sports Network, and under the direction of professional Fitzwater Center staff, students will work in teams of 4-6 to deliver professional-level livestreaming of Ravens Athletics to the FloCollege global platform, launched in 2024. As the semester begins, students will be exposed to a broad range of opportunities for professional development; at the end of the first month, they will self-select the skills they seek to focus on, including in management, technology and communication. The student must work a minimum of 40 hours per semester, primarily in the field but also in weekly production meetings. Prerequisite: None. Offered in Fall and Spring semesters, Winter Term, Summer Terms 1 and 2; post-regular season championship practicum possible. May be repeated for general elective credit. Honors credit is available.

ID303 Practicum Fitzwater Center V

1.0 Credit

This practicum is designed to provide students of any major with highly transferable and individualized experience in communication media technology, management, marketing and communication. The student will be actively involved in: - student media outlets, including PoliticsFitzU, The Pierce Arrow, WFPC-LP 105.3 FM, Fitzwater Productions, Ravens Sports Network (non-game coverage); and/or - the development and delivery of a broad range of Fitzwater Center programming, including but not limited to Constitution Day observances, The Presidency & The Press, IndieLens Pop-up film screenings, Fitzwater Honors events, podcast development, or video projects; and/or - professional partnerships that include the Granite State News Collaborative, NHPBS, Citizens Count, the Franklin Pierce Law Center at UNH, Radically Rural/The Keene-Sentinel and the Hannah Grimes Center for Entrepreneurship, and state civics organization. Under the direction of professional Fitzwater Center staff, and depending on the numbers enrolled, students will work as individuals or in small teams on one or more projects, acting in any number of appropriate roles, including but not limited to event planner, engagement specialist, writer, producer, on-air talent, and audio specialist. As the practicum begins, students will be exposed to a broad range of opportunities for professional development; in a few weeks, they will self-select the skills and relevant projects they seek to focus on, including in management, technology and communication. The student must work a minimum of 40 hours per semester, primarily in the field but also in weekly production meetings. Prerequisite: None. Offered in Fall and Spring semesters, Winter Term, Summer Terms 1 and 2. May be repeated for general elective credit. Honors credit is available.

ID304 Practicum Fitzwater Center VI

1.0 Credit

This practicum is designed to provide students of any major with highly transferable and individualized experience in communication media technology, management, marketing and communication. The student will be actively involved in: - student media outlets, including PoliticsFitzU, The Pierce Arrow, WFPC-LP 105.3 FM, Fitzwater Productions, Ravens Sports Network (non-game coverage);

and/or - the development and delivery of a broad range of Fitzwater Center programming, including but not limited to Constitution Day observances, The Presidency & The Press, IndieLens Pop-up film screenings, Fitzwater Honors events, podcast development, or video projects; and/or - professional partnerships that include the Granite State News Collaborative, NHPBS, Citizens Count, the Franklin Pierce Law Center at UNH, Radically Rural/The Keene-Sentinel and the Hannah Grimes Center for Entrepreneurship, and state civics organization. Under the direction of professional Fitzwater Center staff, and depending on the numbers enrolled, students will work as individuals or in small teams on one or more projects, acting in any number of appropriate roles, including but not limited to event planner, engagement specialist, writer, producer, on-air talent, and audio specialist. As the practicum begins, students will be exposed to a broad range of opportunities for professional development; in a few weeks, they will self-select the skills and relevant projects they seek to focus on, including in management, technology and communication. The student must work a minimum of 40 hours per semester, primarily in the field but also in weekly production meetings. Prerequisite: None. Offered in Fall and Spring semesters, Winter Term, Summer Terms 1 and 2. May be repeated for general elective credit. Honors credit is available.

ID305 Practicum Ravens Sports Network V 1.0 Credit

This practicum is designed to provide students of any major with highly transferable experience in all aspects of live field production, from pre-production through production, as on-air talent, behind-the-scenes crew, or as an assistant producer/director. Through Ravens Sports Network, and under the direction of professional Fitzwater Center staff, students will work in teams of 4-6 to deliver professional-level livestreaming of Ravens Athletics to the FloCollege global platform, launched in 2024. As the semester begins, students will be exposed to a broad range of opportunities for professional development; at the end of the first month, they will self-select the skills they seek to focus on, including in management, technology and communication. The student must work a minimum of 40 hours per semester, primarily in the field but also in weekly production meetings. Prerequisite: None. Offered in Fall and Spring semesters, Winter Term, Summer Terms 1 and 2; post-regular season championship practicum possible. May be repeated for general elective credit. Honors credit is available.

ID306 Practicum Ravens Sport Network VI 1.0 Credit

This practicum is designed to provide students of any major with highly transferable experience in all aspects of live field production, from pre-production through production, as on-air talent, behind-the-scenes crew, or as an assistant producer/director. Through Ravens Sports Network, and under the direction of professional Fitzwater Center staff, students will work in teams of 4-6 to deliver professional-level livestreaming of Ravens Athletics to the FloCollege global platform, launched in 2024. As the semester begins, students will be exposed to a broad range of opportunities for professional development; at the end of the first month, they will self-select the skills they seek to focus on, including in management, technology and communication. The student must work a minimum of 40 hours per semester, primarily in the field but also in weekly production meetings. Prerequisite: None. Offered in Fall and Spring semesters, Winter Term, Summer Terms 1 and 2; post-regular season championship practicum possible. May be repeated for general elective credit. Honors credit is available.

ID402 Practicum Fitzwater Center VII 1.0 Credit

This practicum is designed to provide students of any major with highly transferable and individualized experience in communication media technology, management, marketing and communication. The student will be actively involved in: - student media outlets, including PoliticsFitzU, The Pierce Arrow, WFPC-LP 105.3 FM, Fitzwater Productions, Ravens Sports Network (non-game coverage); and/or - the development and delivery of a broad range of Fitzwater Center programming, including but not limited to Constitution Day observances, The Presidency & The Press, IndieLens Pop-up film screenings, Fitzwater Honors events, podcast development, or video projects; and/or - professional partnerships that include the Granite State News Collaborative, NHPBS, Citizens Count, the Franklin Pierce Law Center at UNH, Radically Rural/The Keene-Sentinel and the Hannah Grimes Center for Entrepreneurship, and state civics organization. Under the direction of professional Fitzwater Center staff, and depending on the numbers enrolled, students will work as individuals or in small teams on one or more projects, acting in any number of appropriate roles, including but not limited to event planner, engagement specialist, writer, producer, on-air talent, and audio specialist. As the practicum begins, students will be exposed to a broad range of opportunities for professional development; in a few weeks, they will self-select the skills and relevant projects they seek to focus on, including in management, technology and communication. The student must work a minimum of 40 hours per semester, primarily in the field but also in weekly production meetings. Prerequisite: None. Offered in Fall and Spring semesters, Winter Term, Summer Terms 1 and 2. May be repeated for general elective credit. Honors credit is available.

ID404 Practicum Fitzwater Center VIII 1.0 Credit

This practicum is designed to provide students of any major with highly transferable and individualized experience in communication media technology, management, marketing and communication. The student will be actively involved in: - student media outlets, including PoliticsFitzU, The Pierce Arrow, WFPC-LP 105.3 FM, Fitzwater Productions, Ravens Sports Network (non-game coverage); and/or - the development and delivery of a broad range of Fitzwater Center programming, including but not limited to Constitution Day observances, The Presidency & The Press, IndieLens Pop-up film screenings, Fitzwater Honors events, podcast development, or video projects; and/or - professional partnerships that include the Granite State News Collaborative, NHPBS, Citizens Count, the Franklin Pierce Law Center at UNH, Radically Rural/The Keene-Sentinel and the Hannah Grimes Center for Entrepreneurship, and state civics

organization. Under the direction of professional Fitzwater Center staff, and depending on the numbers enrolled, students will work as individuals or in small teams on one or more projects, acting in any number of appropriate roles, including but not limited to event planner, engagement specialist, writer, producer, on-air talent, and audio specialist. As the practicum begins, students will be exposed to a broad range of opportunities for professional development; in a few weeks, they will self-select the skills and relevant projects they seek to focus on, including in management, technology and communication. The student must work a minimum of 40 hours per semester, primarily in the field but also in weekly production meetings. Prerequisite: None. Offered in Fall and Spring semesters, Winter Term, Summer Terms 1 and 2. May be repeated for general elective credit. Honors credit is available.

ID405 Practicum Ravens Sports Network VII 1.0 Credit

This practicum is designed to provide students of any major with highly transferable experience in all aspects of live field production, from pre-production through production, as on-air talent, behind-the-scenes crew, or as an assistant producer/director. Through Ravens Sports Network, and under the direction of professional Fitzwater Center staff, students will work in teams of 4-6 to deliver professional-level livestreaming of Ravens Athletics to the FloCollege global platform, launched in 2024. As the semester begins, students will be exposed to a broad range of opportunities for professional development; at the end of the first month, they will self-select the skills they seek to focus on, including in management, technology and communication. The student must work a minimum of 40 hours per semester, primarily in the field but also in weekly production meetings. Prerequisite: None. Offered in Fall and Spring semesters, Winter Term, Summer Terms 1 and 2; post-regular season championship practicum possible. May be repeated for general elective credit. Honors credit is available.

ID406 Practicum Ravens Sport Network VIII 1.0 Credit

This practicum is designed to provide students of any major with highly transferable experience in all aspects of live field production, from pre-production through production, as on-air talent, behind-the-scenes crew, or as an assistant producer/director. Through Ravens Sports Network, and under the direction of professional Fitzwater Center staff, students will work in teams of 4-6 to deliver professional-level livestreaming of Ravens Athletics to the FloCollege global platform, launched in 2024. As the semester begins, students will be exposed to a broad range of opportunities for professional development; at the end of the first month, they will self-select the skills they seek to focus on, including in management, technology and communication. The student must work a minimum of 40 hours per semester, primarily in the field but also in weekly production meetings. Prerequisite: None. Offered in Fall and Spring semesters, Winter Term, Summer Terms 1 and 2; post-regular season championship practicum possible. May be repeated for general elective credit. Honors credit is available.

MU100 Recorder for Classroom Teachers 1.0 Credit

Teaches the basics of recorder playing while simultaneously exploring the instrument as a pedagogical tool. Discussion of methods and instruments is included.

MU102 Special Topics in Music 0.0 Credits

MU102 is designed for students interested in music, but not planning to make it a major/minor: no musical knowledge is presumed. Listening and music creation are a focus, while the elements of music are taught from a cultural and historical context. The content is broad in scope, covering folk, classical and popular styles from western and non-western approaches and perspectives. The student can choose from three distinct themes, each in its own course section, offered on a two-year cycle. The three themes are: (1) The Song, from Bach to Hip-hop (2) Music and World Culture, (3) Music: The Composer's Voice. See campus web for details on which section will be offered. Addresses GLE Learning Outcomes Arts and Design, Creative Thinking, and Oral Communication.

MU103 Piano I 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU104 Piano II 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU105 Guitar I 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU106 Guitar II 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU107 Voice I 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU108 Voice II 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU120 Recording Techniques 3.0 Credits

Students will learn the skills required to make successful recordings in diverse situations and locations. Determining the proper microphone(s) for a specific purpose and the most effective placement of microphones will enable the creation of clear, recorded representations of live performances, environmental and ambient sounds. Microphone types and techniques will be studied, demonstrated and made available for class projects, including live recording, multi-track studio recording, and field recording. Addresses GLE Learning Outcomes Arts & Design (AD), Applied Learning (AL) and Creative Thinking (CV).

MU150 Fundamentals of Music 3.0 Credits

An introductory course in the elementary materials of music, including notation, meter, scales, intervals, triads, terminology and other rudiments of reading and writing music. Addresses GLE Learning Outcomes Arts & Design (AD), Applied Learning (AL), and Creative Thinking (CV).

MU151 Theory of Music I 2.0 Credits

A multilevel course designed to teach Music Theory I-IV concurrently. All students will complete theory-based composition projects and assignments specific to their level. Critique of student compositions, ear training, and in-class analysis of specific pieces of music will provide a common point of discussion and learning. Musical examples will come from a variety of styles including Jazz, Folk, Popular, and Classical. Specific content for level I is a study of triads and their inversions, writing and analysis of basic four-part diatonic chord progressions, melodic writing and analysis, harmonizing simple melodies and the dominant seventh chord.

MU154 Contemporary Music Making I 2.0 Credits

This is an 8-level private instruction course that focuses on original music composition in all its forms: songwriting, beat creation, film/game scoring, and concert music, among others. This course is designed to be an option for students to fulfill the “private instruction” requirement in the music major and minor. Though, all students are welcome to register. Offered every semester. No prerequisites for first level, then each level is a prerequisite for the next. Some music courses require private music instruction. Private music instruction costs \$275 per course regardless of your major or minor status. Students with questions about fees or process should consult with their music department advisor

MU155 Rap I 2.0 Credits

This is an 8-level private instruction course that teaches the student how to rap. This course will teach both vocal and poetic skills, and is designed to be an option for students to fulfill the “private instruction” requirement in the Music major and minor. Though, all students are welcome to register. Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU156 Athletic Bands 1.0 Credit

Athletic Bands is a course that constitutes a music ensemble made of three interrelated bands (Pep Band, Marching Band and Drumline) performing repertoire specifically suited for accompaniment to athletic games. Through collaboration and creativity, students develop a set list of songs aimed to energize and inspire the athletes and spectators. The ensemble will rehearse regularly (12 times spread throughout the year) and play 12 home games, equally split between men’s and women’s sports; this may include: football, basketball, soccer, and hockey, among others. There is no audition, and all students at every level of musical skill are invited to register and participate. Beginners welcome! This is a 2-semester course that begins in the Fall semester; student will receive an “in-progress” grade after the fall semester. We will run this course every year.

MU189	Low Brass I	2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor		
MU190	Low Brass II	2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor		
MU191	Vocal Ensemble I	1.0 Credit
A mixed choral ensemble rehearsing and performing choral literature. Instruction in ear training and technical principles of performance are included. A concert is given at the end of each semester. Designed to give the maximum number of people an opportunity to experience musical performance. Choral Union is open to all students for credit or non-credit. No prior performance experience is necessary. However, minimal singing ability is required.		
MU192	Vocal Ensemble II	1.0 Credit
A mixed choral ensemble rehearsing and performing choral literature. Instruction in ear training and technical principles of performance are included. A concert is given at the end of each semester. Designed to give the maximum number of people an opportunity to experience musical performance. Choral Union is open to all students for credit or non-credit. No prior performance experience is necessary. However, minimal singing ability is required.		
MU193	Double Reeds I	2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor		
MU194	Double Reeds II	2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor		
MU195	Recorder I	2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor		
MU196	Recorder II	2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor		
MU200	Sophomore Music Portfolio	0.0 Credits
This requirement is an assessment of the student's progress in the Music major and the baccalaureate program, through the student's portfolio. Prerequisites: MU151 and declared Music major.		
MU203	Piano III	2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor		
MU204	Piano IV	2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor		

MU205 Guitar III 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU206 Guitar IV 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU207 Voice III 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU208 Voice IV 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU209 Theory of Music II 2.0 Credits

A multilevel course designed to teach Music Theory I-IV concurrently. All students will complete theory-based composition projects and assignments specific to their level. Critique of student compositions, ear training, and in-class analysis of specific pieces of music will provide a common point of discussion and learning. Musical examples will come from a variety of styles including Jazz, Folk, Popular, and Classical. MU209 Theory of Music II includes the study of cadences and phrases, non-chord tones, the dominant seventh chord, the ii6 and vii6 chord, and other diatonic seventh chords. Prerequisite: MU151.

MU210 Women and Music 3.0 Credits

Examines the contributions of women to musical culture through western history and in our contemporary world. Topics explored are women composers, performers, patrons and musical images of women. Genres include classical, jazz, blues, rock, country and hip-hop. Addresses GLE Learning Outcomes Arts & Design, Creative Thinking and Oral Communication.

MU212 Jazz History 3.0 Credits

This uniquely American art is traced from its humble beginnings in the work songs and spirituals of the Old South to ragtime and the early years of New Orleans Dixieland, to the sophisticated, multifaceted jazz of today. Addresses GLE Learning Outcomes Arts & Design (AD), Applied Learning (AL) and Creative Thinking (CV).

MU214 World Music 3.0 Credits

A survey of the music of the world other than western art and popular music. The place of music in societies and its connections with other arts. The music of primitive cultures, the music of the high cultures of Asia, and the folk music of western cultures.

MU215 Computer Music Applications 3.0 Credits

Introduces the student to the ways in which sound may be represented using a computer. Topics include digital audio recording and editing, MIDI sequencing, software-based synthesis, and notation. The technical side of these areas is balanced with active discussion of compositional considerations and historical context. Students are required to compose short projects using the skills and techniques acquired over the course of the semester.

MU217 Rap II 2.0 Credits

This is an 8-level private instruction course that teaches the student how to rap. This course will teach both vocal and poetic skills, and is designed to be an option for students to fulfill the “private instruction” requirement in the Music major and minor. Though, all students are welcome to register. Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU218 History of Electronic Music 3.0 Credits

Traces the history of electronic music, examining the impact of technology on artistic thought and the creative process in late 19th century, 20th century and current sonic art. Influential musicians, movements and venues associated with electronic sound will be discussed including the Futurists, early electronic instruments, Varese, Cage, Stockhausen, Musique Concrète, Elektronische Musik, tape recorders, synthesizers, Text-Sound Art, radio plays, Minimalism, Sound Installation Art, Site-Specific Sound Compositions, Soundscape, Computer Music, algorithmic composition and Live Interactive Electronic Sound and Internet Audio. Students will regularly analyze important works in an effort to gain insight into processes utilized by composers working with technology. Addresses GLE Learning Outcomes Arts & Design (AD), Applied Learning (AL) and Creative Thinking (CV).

MU219 Music and Film 3.0 Credits

This course explores how music has been used in film since the beginning of the film medium. The work of important film composers is studied and analyzed. Terminology for this process is also studied and students learn how to effectively judge film scores. Addresses GLE Learning Outcomes Arts & Design (AD), Applied Learning (AL), and Problem Solving (PS).

MU220 Advanced Recording Techniques 3.0 Credits

The skills required in Recording Techniques (MU120) will be further developed through five recording projects. These projects will focus on the recording of musical instruments, post-production mixing, and the study of equalization, compression and reverb. Listening skills will be developed through in-class aural analysis and the study of producers and their techniques. The study of acoustics and audio theory will give the student a scientific background in the skill of recording. Prerequisite: MU120

MU227 Rap III 2.0 Credits

This is an 8-level private instruction course that teaches the student how to rap. This course will teach both vocal and poetic skills, and is designed to be an option for students to fulfill the “private instruction” requirement in the Music major and minor. Though, all students are welcome to register. Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU228 Rap IV 2.0 Credits

This is an 8-level private instruction course that teaches the student how to rap. This course will teach both vocal and poetic skills, and is designed to be an option for students to fulfill the “private instruction” requirement in the Music major and minor. Though, all students are welcome to register. Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU234 The Beatles: Voice of a Generation 3.0 Credits

This course is designed to examine how the musical group, the Beatles, influenced the worlds of music, film, fashion, art, business, and spirituality in the context of the 1960s. The band’s impact will be studied by use of recordings, primary documents, subsequent scholarly writings, and DVDs. Addresses GLE Learning Outcomes Arts & Design (AS); Creative Thinking (CV); Oral Communication (OC)

MU237 Contemporary Music Making II 2.0 Credits

This is an 8-level private instruction course that focuses on original music composition in all its forms: songwriting, beat creation, film/ game scoring, and concert music, among others. This course is designed to be an option for students to fulfill the “private instruction” requirement in the music major and minor. Though, all students are welcome to register. Offered every semester. No prerequisites for first level, then each level is a prerequisite for the next. Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU238 Contemporary Music Making III 2.0 Credits

This is an 8-level private instruction course that focuses on original music composition in all its forms: songwriting, beat creation, film/ game scoring, and concert music, among others. This course is designed to be an option for students to fulfill the “private instruction” requirement in the music major and minor. Though, all students are welcome to register. Offered every semester. No prerequisites for first level, then each level is a prerequisite for the next. Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU239 Contemporary Music Making IV**2.0 Credits**

This is an 8-level private instruction course that focuses on original music composition in all its forms: songwriting, beat creation, film/game scoring, and concert music, among others. This course is designed to be an option for students to fulfill the “private instruction” requirement in the music major and minor. Though, all students are welcome to register. Offered every semester. No prerequisites for first level, then each level is a prerequisite for the next. Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU240 Music Industry**3.0 Credits**

The course will provide a background study of all related areas of the multibillion-dollar music industry, including the evolution and operations of the record company, music publishing, artist management, live music, copyright, music business, and various forms of digital music media.

MU256 Athletic Bands**1.0 Credit**

Athletic Bands is a course that constitutes a music ensemble made of three interrelated bands (Pep Band, Marching Band and Drumline) performing repertoire specifically suited for accompaniment to athletic games. Through collaboration and creativity, students develop a set list of songs aimed to energize and inspire the athletes and spectators. The ensemble will rehearse regularly (12 times spread throughout the year) and play 12 home games, equally split between men’s and women’s sports; this may include: football, basketball, soccer, and hockey, among others. There is no audition, and all students at every level of musical skill are invited to register and participate. Beginners welcome! This is a 2-semester course that begins in the Fall semester; student will receive an “in-progress” grade after the fall semester. We will run this course every year.

MU257 Bass Guitar III**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU258 Bass Guitar IV**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU259 Flute III**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU260 Flute IV**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU267 Jazz Ensemble III**1.0 Credit**

Open to all musicians in the College community, with or without previous jazz experience. Repertoire consists of combo style jazz, featuring composers of the 1940s to the present. Improvisation is emphasized and student composition and arrangements are encouraged. Prerequisite: permission of instructor.

MU268 Jazz Ensemble IV**1.0 Credit**

Open to all musicians in the College community, with or without previous jazz experience. Repertoire consists of combo style jazz, featuring composers of the 1940s to the present. Improvisation is emphasized and student composition and arrangements are encouraged. Prerequisite: permission of instructor.

MU269 Clarinet III**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU285 Trumpet III 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU286 Trumpet IV 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU287 Trombone III 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU288 Trombone IV 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU289 Low Brass III 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU290 Low Brass IV 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU291 Vocal Ensemble III 1.0 Credit

A mixed choral ensemble rehearsing and performing choral literature. Instruction in ear training and technical principles of performance are included. A concert is given at the end of each semester. Designed to give the maximum number of people an opportunity to experience musical performance. Choral Union is open to all students for credit or non-credit. No prior performance experience is necessary. However, minimal singing ability is required.

MU292 Vocal Ensemble IV 1.0 Credit

A mixed choral ensemble rehearsing and performing choral literature. Instruction in ear training and technical principles of performance are included. A concert is given at the end of each semester. Designed to give the maximum number of people an opportunity to experience musical performance. Choral Union is open to all students for credit or non-credit. No prior performance experience is necessary. However, minimal singing ability is required.

MU293 Double Reeds II 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU294 Double Reeds IV 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU295 Recorder III 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU296 Recorder IV 2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU299 Independent Study in Music 0.0 Credits
Independent Study in Music 1-3 credits each

MU303 Piano V 2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU304 Piano VI 2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU305 Guitar V 2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU306 Guitar VI 2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU307 Voice V 2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU308 Voice VI 2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU309 Theory of Music III 2.0 Credits
A multilevel course designed to teach Music Theory I-IV concurrently. All students will complete theory-based composition projects and assignments specific to their level. Critique of student compositions, ear training, and in-class analysis of specific pieces of music will provide a common point of discussion and learning. Musical examples will come from a variety of styles including Jazz, Folk, Popular, and Classical. MU309 Theory of Music III includes the study of cadences and phrases, non-chord tones, the dominant seventh chord, the ii6 and vii6 chord, and other diatonic seventh chords. Prerequisite: MU151.

MU310 Computer Music II 3.0 Credits
The techniques explored in Computer Music I are further developed with emphasis placed on digital synthesis and live applications of electronic and/or digital music. Students are required to devote at least one of their compositional projects to the combination of live and pre-recorded electronic sources. Special attention is paid to the enhancement of one sonic parameter, for example, the illusion of movement through space, through the orchestration of other sonic parameters. The ability to “intermodulate” between diverse sound sources is also emphasized. Students are required to complete composition assignments throughout the semester. Prerequisite: MU215.

MU318 History of Western Music 3.0 Credits
A survey of Western Classical music from its origins through to the present. Major composers and their works are discussed and experienced. Special attention is paid to musical developments with related developments in other arts. A technical knowledge of music is presupposed. Prerequisite: MU151.

MU321 Popular and World Music**3.0 Credits**

This course puts side by side what is known as “World” music with various forms of “Popular” music, not exclusively focused on the western cultural hegemony. Our intent is to study the similarities and differences in these parallel yet interconnected musical forces, and discover how the culture, history and tradition of a place can influence the kinds of musical expression which becomes popular. Examples of the music we will study include: K-Pop, Tuvan Throat Singing, Reggae, Arabic Rap, Hindustani Music, and Delta Blues. We will attempt an understanding of a music’s cultural and historical context, and then step back to see how it fits into an immensely diverse musical world.

MU327 Rap V**2.0 Credits**

This is an 8-level private instruction course that teaches the student how to rap. This course will teach both vocal and poetic skills, and is designed to be an option for students to fulfill the “private instruction” requirement in the Music major and minor. Though, all students are welcome to register. Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU328 Rap VI**2.0 Credits**

This is an 8-level private instruction course that teaches the student how to rap. This course will teach both vocal and poetic skills, and is designed to be an option for students to fulfill the “private instruction” requirement in the Music major and minor. Though, all students are welcome to register. Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU337 Contemporary Music Making V**2.0 Credits**

This is an 8-level private instruction course that focuses on original music composition in all its forms: songwriting, beat creation, film/game scoring, and concert music, among others. This course is designed to be an option for students to fulfill the “private instruction” requirement in the music major and minor. Though, all students are welcome to register. Offered every semester. No prerequisites for first level, then each level is a prerequisite for the next. Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU338 Contemporary Music Making VI**2.0 Credits**

This is an 8-level private instruction course that focuses on original music composition in all its forms: songwriting, beat creation, film/game scoring, and concert music, among others. This course is designed to be an option for students to fulfill the “private instruction” requirement in the music major and minor. Though, all students are welcome to register. Offered every semester. No prerequisites for first level, then each level is a prerequisite for the next. Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU356 Athletic Bands**1.0 Credit**

Athletic Bands is a course that constitutes a music ensemble made of three interrelated bands (Pep Band, Marching Band and Drumline) performing repertoire specifically suited for accompaniment to athletic games. Through collaboration and creativity, students develop a set list of songs aimed to energize and inspire the athletes and spectators. The ensemble will rehearse regularly (12 times spread throughout the year) and play 12 home games, equally split between men’s and women’s sports; this may include: football, basketball, soccer, and hockey, among others. There is no audition, and all students at every level of musical skill are invited to register and participate. Beginners welcome! This is a 2-semester course that begins in the Fall semester; student will receive an “in-progress” grade after the fall semester. We will run this course every year.

MU357 Bass Guitar V**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU358 Bass Guitar VI**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU378 Saxophone VI**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU379 Percussion V**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU380 Percussion VI**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU383 Strings V**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU384 Strings VI**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU385 Trumpet V**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU386 Trumpet VI**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU387 Trombone V**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU388 Trombone VI**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU389 Low Brass V**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU390 Low Brass VI**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU391 Vocal Ensemble V 1.0 Credit
A mixed choral ensemble rehearsing and performing choral literature. Instruction in ear training and technical principles of performance are included. A concert is given at the end of each semester. Designed to give the maximum number of people an opportunity to experience musical performance. Choral Union is open to all students for credit or non-credit. No prior performance experience is necessary. However, minimal singing ability is required.

MU392 Vocal Ensemble VI 1.0 Credit
A mixed choral ensemble rehearsing and performing choral literature. Instruction in ear training and technical principles of performance are included. A concert is given at the end of each semester. Designed to give the maximum number of people an opportunity to experience musical performance. Choral Union is open to all students for credit or non-credit. No prior performance experience is necessary. However, minimal singing ability is required.

MU393 Double Reeds V 2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU394 Double Reeds VI 2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU395 Recorder V 2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU396 Recorder VI 2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU398 Internship in Music 0.0 Credits
Internship in Music (1-3 credits). Students may take internships in music to enhance their knowledge and experience in the music professions. All internships must be approved by the Music Department coordinator(s), and the Dean or their designee. Agreements about internships are reached by the student, supervising faculty member and the proposed employer. Evaluation is made by the supervising faculty member in consultation with the on-site work supervisor. Credits are awarded on the basis of 40 hours of work per credit. No more than 3 credits may be awarded for any one internship. Students are allowed to participate in no more than two separate internships. Prerequisites: junior class standing and a declared major in music.

MU399 Independent Study in Music 0.0 Credits
Independent Study in Music 1-3 credits each

MU401 Seminar in Music I 3.0 Credits
This 3-credit course will use a seminar format to study a wide range of advanced topics related to Music Theory, Music Composition, Music History and Music Technology. With the professor's guidance, each student will choose a topic to study throughout the semester. The course work will include three substantial topic-specific projects, weekly study reports, and assigned readings. In class, students will report progress on projects, discuss their topics, give formal presentations, and receive feedback and guidance on completed projects. Regularly, we will critically listen to and discuss music related to each student's topic. This course may be taken up to three times and will be offered about once a year. Prerequisite: MU151 Theory of Music I.

MU403 Piano VII 2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU404 Piano VIII 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU405 Guitar VII 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU406 Guitar VIII 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU407 Voice VII 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU408 Voice VIII 2.0 Credits

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU409 Theory of Music IV 2.0 Credits

A multilevel course designed to teach Music Theory I-IV concurrently. All students will complete theory-based composition projects and assignments specific to their level. Critique of student compositions, ear training, and in-class analysis of specific pieces of music will provide a common point of discussion and learning. Musical examples will come from a variety of styles including Jazz, Folk, Popular, and Classical. MU409 Theory of Music IV includes the study of cadences and phrases, non-chord tones, the dominant seventh chord, the ii6 and vii6 chord, and other diatonic seventh chords. Prerequisite: MU151.

MU411 Seminar in Music II 3.0 Credits

This 3-credit course will use a seminar format to study a wide range of advanced topics related to Music Theory, Music Composition, Music History and Music Technology. With the professor's guidance, each student will choose a topic to study throughout the semester. The course work will include three substantial topic-specific projects, weekly study reports, and assigned readings. In class, students will report progress on projects, discuss their topics, give formal presentations, and receive feedback and guidance on completed projects. Regularly, we will critically listen to and discuss music related to each student's topic. This course may be taken up to three times and will be offered about once a year. Prerequisite: MU151 Theory of Music I.

MU418 Advanced Computer Music Composition 3.0 Credits

Advanced digital synthesis techniques will be the primary focus of the class. Sound for multi-media applications such as web, CD-ROM and video will also be discussed. Students will complete individual assignments using software synthesis applications and programming techniques that enable complete control over the sculpting and modification of synthetic sounds as well as digitized recordings. Form, in music open to an all-inclusive palette of pitched and non-pitched sounds, will be a regular topic of discussion. Prerequisite: MU215.

MU421 Seminar in Music III 3.0 Credits

This 3-credit course will use a seminar format to study a wide range of advanced topics related to Music Theory, Music Composition, Music History and Music Technology. With the professor's guidance, each student will choose a topic to study throughout the semester. The course work will include three substantial topic-specific projects, weekly study reports, and assigned readings. In class, students will report progress on projects, discuss their topics, give formal presentations, and receive feedback and guidance on completed projects. Regularly, we will critically listen to and discuss music related to each student's topic. This course may be taken up to three times and will be offered about once a year. Prerequisite: MU151 Theory of Music I.

MU427 Rap VII 2.0 Credits
This is an 8-level private instruction course that teaches the student how to rap. This course will teach both vocal and poetic skills, and is designed to be an option for students to fulfill the “private instruction” requirement in the Music major and minor. Though, all students are welcome to register. Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU428 Rap VIII 2.0 Credits
This is an 8-level private instruction course that teaches the student how to rap. This course will teach both vocal and poetic skills, and is designed to be an option for students to fulfill the “private instruction” requirement in the Music major and minor. Though, all students are welcome to register. Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU437 Contemporary Music Making VII 2.0 Credits
This is an 8-level private instruction course that focuses on original music composition in all its forms: songwriting, beat creation, film/ game scoring, and concert music, among others. This course is designed to be an option for students to fulfill the “private instruction” requirement in the music major and minor. Though, all students are welcome to register. Offered every semester. No prerequisites for first level, then each level is a prerequisite for the next. Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU438 Contemporary Music Making VIII 2.0 Credits
This is an 8-level private instruction course that focuses on original music composition in all its forms: songwriting, beat creation, film/ game scoring, and concert music, among others. This course is designed to be an option for students to fulfill the “private instruction” requirement in the music major and minor. Though, all students are welcome to register. Offered every semester. No prerequisites for first level, then each level is a prerequisite for the next. Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU450 Senior Recital 3.0 Credits
A Senior recital is required as a representation of proficiency on an instrument and as a culmination of applied study. Includes an advanced level of applied instruction in preparation for the recital as well as instruction in programming, performance deportment, historical research, theoretical analysis and other performance related issues. Prerequisites: Senior status, declared major in Music, Applied track, and completion of all private instruction requirements for the major.

MU451 Senior Project in Music 3.0 Credits
A culminating course for the major in music. Students will show an advanced level of substantial research, analytical or creative work that demonstrates proficiency in an area of musical interest and preparation. Students may choose from the areas of theory/ composition, history, technology or some combination of these for their project specialization. All project selections are subject to Departmental approval. Prerequisites: Senior status, declared major in Music.

MU456 Athletic Bands 1.0 Credit
Athletic Bands is a course that constitutes a music ensemble made of three interrelated bands (Pep Band, Marching Band and Drumline) performing repertoire specifically suited for accompaniment to athletic games. Through collaboration and creativity, students develop a set list of songs aimed to energize and inspire the athletes and spectators. The ensemble will rehearse regularly (12 times spread throughout the year) and play 12 home games, equally split between men’s and women’s sports; this may include: football, basketball, soccer, and hockey, among others. There is no audition, and all students at every level of musical skill are invited to register and participate. Beginners welcome! This is a 2-semester course that begins in the Fall semester; student will receive an “in-progress” grade after the fall semester. We will run this course every year.

MU457 Bass Guitar VII 2.0 Credits
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU458 Bass Guitar VIII**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU459 Flute VII**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU460 Flute VIII**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU467 Jazz Ensemble VII**1.0 Credit**

Open to all musicians in the College community, with or without previous jazz experience. Repertoire consists of combo style jazz, featuring composers of the 1940s to the present. Improvisation is emphasized and student composition and arrangements are encouraged. Prerequisite: permission of instructor.

MU468 Jazz Ensemble VIII**1.0 Credit**

Open to all musicians in the College community, with or without previous jazz experience. Repertoire consists of combo style jazz, featuring composers of the 1940s to the present. Improvisation is emphasized and student composition and arrangements are encouraged. Prerequisite: permission of instructor.

MU469 Clarinet VII**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU470 Clarinet VIII**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU473 Contemporary Music Ensemble VII**1.0 Credit**

Explores the music of living composers in a variety of styles including Popular, Folk, Classical, and Electronic among others. Student songs and compositions may be included at the discretion of the director. No prior performance experience is necessary, though minimal experience playing on an instrument or singing is required.

MU474 Contemporary Music Ensemble VIII**1.0 Credit**

Explores the music of living composers in a variety of styles including Popular, Folk, Classical, and Electronic among others. Student songs and compositions may be included at the discretion of the director. No prior performance experience is necessary, though minimal experience playing on an instrument or singing is required.

MU475 Organ VII**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

MU476 Organ VIII**2.0 Credits**

Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor

- MU490 Low Brass VIII 2.0 Credits**
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor
- MU491 Vocal Ensemble VII 1.0 Credit**
A mixed choral ensemble rehearsing and performing choral literature. Instruction in ear training and technical principles of performance are included. A concert is given at the end of each semester. Designed to give the maximum number of people an opportunity to experience musical performance. Choral Union is open to all students for credit or non-credit. No prior performance experience is necessary. However, minimal singing ability is required.
- MU492 Vocal Ensemble VIII 1.0 Credit**
A mixed choral ensemble rehearsing and performing choral literature. Instruction in ear training and technical principles of performance are included. A concert is given at the end of each semester. Designed to give the maximum number of people an opportunity to experience musical performance. Choral Union is open to all students for credit or non-credit. No prior performance experience is necessary. However, minimal singing ability is required.
- MU493 Double Reeds VII 2.0 Credits**
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor
- MU494 Double Reeds VIII 2.0 Credits**
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor
- MU495 Recorder VII 2.0 Credits**
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor
- MU496 Recorder VIII 2.0 Credits**
Applied Music: Performance Some music courses require private music instruction. A Private Music Instruction fee is assessed to all students enrolled in a course that requires Private Music Instruction. Students with questions about fees or process should consult with their music department advisor
- MU498 Internship in Music 0.0 Credits**
Internship in Music (1-3 credits). Students may take internships in music to enhance their knowledge and experience in the music professions. All internships must be approved by the Music Department coordinator(s), and the Dean or their designee. Agreements about internships are reached by the student, supervising faculty member and the proposed employer. Evaluation is made by the supervising faculty member in consultation with the on-site work supervisor. Credits are awarded on the basis of 40 hours of work per credit. No more than 3 credits may be awarded for any one internship. Students are allowed to participate in no more than two separate internships. Prerequisites: junior class standing and a declared major in music.
- MU499 Independent Study in Music 0.0 Credits**
Independent Study in Music 1-3 credits each
- SPME101 Foundations of Sports Media 3.0 Credits**
This course covers the relationships between sports industries, athletes, media, and audiences. After a brief study of the earliest “coverage” of sports during the ancient Olympic games, we will look at the evolution of sports communication from early sports writers, through early sports broadcast announcers, to the current age, where athletes create their own sports media via Twitter and other social media.

SPME215 Sports Reporting

3.0 Credits

This hands-on course teaches high standards, ethical behavior and professional conduct in fact gathering, interviewing and writing about sports. Students will practice jargon-free, unbiased reporting as they cover campus sports, at times using new forms of digital coverage. Prerequisite: COMM110

SPME250 Sports Media Production

3.0 Credits

This course will give students hands-on experience producing various short form sports programs, such as feature stories, highlights, and news packages. Students will also produce a weekly sports news program focusing on coverage of university sports games and events. Prerequisites: SPME101, COMM120. Offered: Fall, Spring.

SPME255 Internship in Sports Media

0.0 Credits

Internship in Sports Media (1-6 credits). These field-based experiences allow students to work with media specialists in a professional setting to enhance their employment potential upon graduation. An agreement is drawn up and approved by the student, the on-site supervisor, the Sports Media faculty intern-ship advisor, and the Dean or their designee. Students should consult with the faculty internship advisor on the academic requirements before starting the internship. The course grade is assigned by the Mass Communication faculty intern-ship advisor in consultation with the on-site supervisor. Credits are based upon the work hours completed (minimum of 40 hours per credit); a maximum of 6 credits may be earned per term. A student may take up to 15 credits towards graduation credit. Prerequisite: COMM120.

SPME260 Special Topics in Sports Media

3.0 Credits

This course focuses on in-depth exploration of either a timely or historical topic related to the intersection of sports and media. Students may repeat the course, once, for additional credit if the topic is different. Prerequisite for SPME260: SPME101.

SPME300 International Sports Culture

3.0 Credits

In less than a hundred years sports have become an essential part of world culture. Sports events are our passions and sports athletes are our heroes. Sports have become a source of national identities and have often been a focal point for international geopolitics. In this course, we first develop an understanding of sports that are popular abroad, but not well understood at home (e.g., cricket, football, hurling). Then we will explore the ways that sports are understood and appreciated in other nations. We will also explore situations in recent history when sports events became important in geopolitical tensions (e.g., 1936 Berlin Olympics, 1974 heavyweight boxing title fight in Zaire, 2008 Beijing Olympics). The course includes an optional study abroad component at the end of the semester, when we will travel internationally to both view live sporting events and study the media coverage of sports in the places we visit. Prerequisite: SPME101: Foundations of Sports Media. Offered every spring semester.

SPME351 Sports Broadcasting

3.0 Credits

Students will be exposed to the theories and practices of reporting sports for both radio and television. Provides an historical perspective of the field, and emphasizes the development of skills and techniques to develop and deliver a sports broadcast. Prerequisites: COMM120.

SPME355 Internship in Sports Media

0.0 Credits

Internship in Sports Media (1-6 credits). These field-based experiences allow students to work with media specialists in a professional setting to enhance their employment potential upon graduation. An agreement is drawn up and approved by the student, the on-site supervisor, the Sports Media faculty intern-ship advisor, and the Dean or their designee. Students should consult with the faculty internship advisor on the academic requirements before starting the internship. The course grade is assigned by the Mass Communication faculty intern-ship advisor in consultation with the on-site supervisor. Credits are based upon the work hours completed (minimum of 40 hours per credit); a maximum of 6 credits may be earned per term. A student may take up to 15 credits towards graduation credit. Prerequisite: COMM120.

SPME400 Capstone in Sports Media

3.0 Credits

The capstone is an issues-based topics course. We will study a contemporary situation in sports media (e.g., Title IX, domestic abuse by athletes, substance abuse, etc.) to understand the ways in which media coverage of the subject has been more or less effective, how that coverage has influenced public opinion, and how sports media professionals might handle the topic more effectively. The course, therefore, will also involve ethical considerations, so we will explore the subject of communication ethics. Prereqs: SPME Major & Senior Standing.

SPME455 Internship in Sports Media

0.0 Credits

Internship in Sports Media (1-6 credits). These field-based experiences allow students to work with media specialists in a professional setting to enhance their employment potential upon graduation. An agreement is drawn up and approved by the student, the on-site supervisor, the Sports Media faculty intern-ship advisor, and the Dean or their designee. Students should consult with the faculty

internship advisor on the academic requirements before starting the internship. The course grade is assigned by the Mass Communication faculty intern- ship advisor in consultation with the on-site supervisor. Credits are based upon the work hours completed (minimum of 40 hours per credit); a maximum of 6 credits may be earned per term. A student may take up to 15 credits towards graduation credit. Prerequisite: COMM120.

TH101 Introduction to Theatre Arts 3.0 Credits

An introduction and exploration of the various principles and elements which comprise the art of theatre. Addresses GLE Learning Outcomes Arts & Design (AD), Creative Thinking (CV) and Problem Solving (PS).

TH131 Dance Movement I 3.0 Credits

Introduction to contemporary dance based on classical and modern forms, with beginning improvisational work leading to dance composition. Addresses GLE Learning Outcomes Arts & Design (AD), Creative Thinking (CV) and Problem Solving (PS).

TH132 Dance Movement II 3.0 Credits

A studio course emphasizing modern dance technique, improvisation and dance composition, leading to performance of student-choreographed work. Prerequisite: TH131 or substantial dance training.

TH133 Dance Movement III 3.0 Credits

A studio course emphasizing modern dance technique, improvisation and dance composition, leading to performance of student-choreographed work. Prerequisite: TH131 or substantial dance training.

TH134 Dance Movement IV 3.0 Credits

A studio course emphasizing modern dance technique, improvisation and dance composition, leading to performance of student-choreographed work. Prerequisite: TH131 or substantial dance training.

TH141 Production/Dance Performance I 1.0 Credit

Participation in annual student dance concert either by performing as a dancer on the stage or by choreographing and staging a dance for other dancers. Prerequisite: audition.

TH142 Production/Dance Performance II 1.0 Credit

Participation in annual student dance concert either by performing as a dancer on the stage or by choreographing and staging a dance for other dancers. Prerequisite: audition.

TH143 Production/Dance Performance III 1.0 Credit

Participation in annual student dance concert either by performing as a dancer on the stage or by choreographing and staging a dance for other dancers. Prerequisite: audition.

TH144 Production/Dance Performance IV 1.0 Credit

Participation in annual student dance concert either by performing as a dancer on the stage or by choreographing and staging a dance for other dancers. Prerequisite: audition.

TH145 Production/Dance Performance V 1.0 Credit

Participation in annual student dance concert either by performing as a dancer on the stage or by choreographing and staging a dance for other dancers. Prerequisite: audition.

TH146 Production/Dance Performance VI 1.0 Credit

Participation in annual student dance concert either by performing as a dancer on the stage or by choreographing and staging a dance for other dancers. Prerequisite: audition.

TH147 Production/Dance Performance VII 1.0 Credit

Participation in annual student dance concert either by performing as a dancer on the stage or by choreographing and staging a dance for other dancers. Prerequisite: audition.

TH148	Production/Dance Performance VIII	1.0 Credit
Participation in annual student dance concert either by performing as a dancer on the stage or by choreographing and staging a dance for other dancers. Prerequisite: audition.		
TH161	Production/Performance I	1.0 Credit
Students enrolled in these courses will participate in the performance of a full-length faculty directed major production. Prerequisite: audition.		
TH162	Production/Performance II	1.0 Credit
Students enrolled in these courses will participate in the performance of a full-length faculty directed major production. Prerequisite: audition.		
TH163	Production/Performance III	1.0 Credit
Students enrolled in these courses will participate in the performance of a full-length faculty directed major production. Prerequisite: audition.		
TH164	Production/Performance IV	1.0 Credit
Students enrolled in these courses will participate in the performance of a full-length faculty directed major production. Prerequisite: audition.		
TH165	Production/Performance V	1.0 Credit
Students enrolled in these courses will participate in the performance of a full-length faculty directed major production. Prerequisite: audition.		
TH166	Production/Performance VI	1.0 Credit
Students enrolled in these courses will participate in the performance of a full-length faculty directed major production. Prerequisite: audition.		
TH167	Production/Performance VII	1.0 Credit
Students enrolled in these courses will participate in the performance of a full-length faculty directed major production. Prerequisite: audition.		
TH168	Production/Performance VIII	1.0 Credit
Students enrolled in these courses will participate in the performance of a full-length faculty directed major production. Prerequisite: audition.		
TH171	Production/Design&Tech Theatre I	1.0 Credit
The opportunity to participate in the preparation and execution of a major faculty-directed stage production. Opportunities include building, painting, installation of scenery and lighting, operation of stage lighting, and stage management.		
TH172	Production/Design&Tech Theatre II	1.0 Credit
The opportunity to participate in the preparation and execution of a major faculty-directed stage production. Opportunities include building, painting, installation of scenery and lighting, operation of stage lighting, and stage management.		
TH173	Production/Design&Tech Theatre III	1.0 Credit
The opportunity to participate in the preparation and execution of a major faculty-directed stage production. Opportunities include building, painting, installation of scenery and lighting, operation of stage lighting, and stage management.		
TH174	Production/Design&Tech Theatre IV	1.0 Credit
The opportunity to participate in the preparation and execution of a major faculty-directed stage production. Opportunities include building, painting, installation of scenery and lighting, operation of stage lighting, and stage management.		
TH175	Production/Design&Tech Theatre V	1.0 Credit
The opportunity to participate in the preparation and execution of a major faculty-directed stage production. Opportunities include building, painting, installation of scenery and lighting, operation of stage lighting, and stage management.		

TH176 Production/Design&Tech Theatre VI 1.0 Credit

TH171–178 Production/Design and Technical Theatre I–VIII 1 credit each The opportunity to participate in the preparation and execution of a major faculty-directed stage production. Opportunities include building, painting, installation of scenery and lighting, operation of stage lighting, and stage management.

TH177 Production/Design&Tech Theatre VII 1.0 Credit

The opportunity to participate in the preparation and execution of a major faculty-directed stage production. Opportunities include building, painting, installation of scenery and lighting, operation of stage lighting, and stage management.

TH178 Production/Design&Tech Theatre VIII 1.0 Credit

The opportunity to participate in the preparation and execution of a major faculty-directed stage production. Opportunities include building, painting, installation of scenery and lighting, operation of stage lighting, and stage management.