

**Instrumental****MUAP 237. Marching Band (Fall Semester).** 2 credits. *Offered fall.*

The marching band will perform music and drill which is artistically structured. The repertoire will be representative of all styles of music. The marching band is required for two years of wind and percussion majors in the music education degree program.

**MUAP 238. Concert Band.** 1 credit. *Offered fall and spring.*

Open to all interested participants. A wide variety of music is utilized to acquaint the student with different types of band literature.

**MUAP 239. Symphonic Band.** 1 credit. *Offered fall and spring.*

The JMU Symphonic Band is a select group of brass, woodwind and percussion students who are dedicated to the performance of both traditional and contemporary band literature. The ensemble performs music of all periods and is open to any university student by audition.

**MUAP 344. Chamber Orchestra.** 1 credit. *Offered fall and spring.*

Open to all university students. Membership is determined by audition. Music written for chamber orchestra from all periods is studied and performed.

**MUAP 345. Symphony Orchestra.** 2 credits. *Offered fall and spring.*

The JMU Symphony Orchestra is a participating member of the American Symphony Orchestra League. Membership is determined by audition and is open to all university students. Literature performed is from the standard symphonic repertoire.

**MUAP 346. Wind Symphony.** 2 credits. *Offered fall and spring.*

The JMU Wind Symphony is a highly select group of brass, woodwind and percussion students who are dedicated to the performance of wind orchestra music and chamber music for winds. The ensemble performs music from all periods and is open to any university student by audition in the fall of each academic year.

**MUAP 347. Jazz Ensemble.** 2 credits. *Offered fall and spring.*

Instrumental music performance ensemble of the standard "big band" instrumentation whose repertoire reflects jazz styles from the swing era to contemporary jazz. Admission is by audition.

**MUAP 348. Jazz Band.** 1 credit. *Offered fall and spring.*

Instrumental ensemble, performing the standard and contemporary repertoire of American music with emphasis on the jazz idiom. Jazz band is open to all JMU students by audition.

**MUAP 350. String Ensemble.** 1 credit. *Offered fall and spring.*

A rehearsal and performance ensemble where students of similar technical and musical ability are grouped in traditional string or piano trios, quartets and quintets and present public performances of important compositions from the chamber music literature of all historical periods.

**MUAP 351. Woodwind Ensemble.** 1 credit. *Offered fall and spring.*

Woodwind ensembles consisting of quintets or other smaller and larger combinations, limited to specially selected personnel through auditions. Concerts and other performances are prepared from a variety of literature from the classical period to the present.

**MUAP 352. Brass Band.** 1 credit. *Offered fall and spring.*

Open to all university students by audition. A select brass and percussion ensemble limited to the standard instrumentation of the "British-style" brass band. The ensemble performs literature of all styles from the extensive brass band tradition. The band typically participates in the annual NABBA Championships.

**MUAP 353. Guitar Ensemble.** 1 credit. *Offered fall and spring.*

The performance of guitar music from Renaissance to 20th century for duos, trios and quartets.

**MUAP 354. Percussion Ensemble.** 1 credit. *Offered fall and spring.*

The study and preparation for public performance of percussion ensemble literature. The ensemble is open to all university students by audition.

**MUAP 355. Jazz Chamber Ensemble.** 1 credit. *Offered fall and spring.*

Open by audition to students demonstrating a high degree of skill in jazz improvisation. Concerts and other performances are prepared from a variety of literature from early jazz to the present day.

**MUAP 360. Opera/Music Theatre Orchestra.** 1 credit. *Offered fall and spring.*

This ensemble will serve as the accompanying ensemble for staged productions within the School of Music and the School of Theatre and Dance. Enrollment in this course will be open to all students at the university by audition.

**MUAP 362. Brass Chamber Ensembles.** 1 credit. *Offered fall and spring.*

Brass chamber ensembles consisting of quartets, quintets or larger combinations, limited to specially selected personnel through auditions. Concerts and other performances are prepared and presented from literature spanning the Renaissance to the present day. *Prerequisites: Permission of instructor.*

**MUAP 364. Camerata Strings.** 1 credit. *Offered spring.*

Camerata Strings is a select instrumental string ensemble that performs a broad range of string ensemble literature from the 1600s to the present. The ensemble is open to any student of the university through competitive auditions held at the start of each spring semester. *Prerequisite: Participants must complete competitive auditions at the start of the spring semester and, based on audition outcomes, be offered membership by the Music Director of the ensemble.*

**MUAP 380. Collegium Musicum.** 1 credit. *Offered fall.*

The Collegium Musicum is a select vocal/instrumental ensemble dedicated to the historically-informed performance of early music (music composed before ca. 1700). Repertoire includes major works primarily of the renaissance and early Baroque era. Membership is by audition or invitation. May be repeated for credit.

**Vocal****MUAP 234. Men's Chorus.** 1 credit. *Offered fall and spring.*

Performs music of various styles but with primary focus on the lighter genres. It is open to the entire male student body without audition. The director reserves the right to limit membership because of balance or space considerations.

**MUAP 235. Chorus.** 1 credit. *Offered fall and spring.*

Acquaints students with a variety of choral music including music that is suitable for use with school groups and through this singing helps develop choral techniques and general musicianship. Students may participate in this ensemble without audition. However, the director reserves the right to determine its membership.

**MUAP 236. Women's Chorus.** 1 credit. *Offered fall and spring.*

Performs music of various styles but with primary focus on the lighter genres. It is open to the entire female student body without audition. The director reserves the right to limit membership because of balance or space considerations.

**MUAP 340. Chorale.** 1 credit. *Offered fall and spring.*

A highly selected, 60-voice mixed choir that performs repertoire from the Renaissance to the contemporary era, both sacred and secular. There are opportunities to perform on and off campus. Membership is by audition.

**MUAP 341. Madison Singers.** 2 credits. *Offered fall and spring.*

Madison Singers is a highly select choral chamber ensemble that performs the best of representative choral music from the Renaissance to the present. The ensemble is open to any university student by audition in the fall of the academic year.

**MUAP 343. Opera Theatre.** 1-2 credits. *Offered fall and spring.*

The preparation and public performance of grand opera, light opera and musicals. Work will include coaching of both music and acting. Credit may vary with permission of the instructor depending on the amount of time commitment. Admission is by audition only.

**Piano****MUAP 357. Piano Accompanying and Piano Ensemble.**

1 credit. *Offered fall and spring.*

A course in basic accompanying skills and style characteristics required for two semesters (one fall, one spring) of all piano majors. Students will be assigned to vocal or instrumental studios and have the opportunity to perform in master class and private coaching sessions.

## Nonprofit Studies

### Department of Social Work

**NPS 300. Introduction to Nonprofits.** 3 credits. *Offered fall and/or spring.*

An introduction to the development of the nonprofit sector in the American context exploring history, theories, legal issues, governance and ethical considerations. Global nonprofits are also explored. Provides a foundation for subsequent work in the nonprofit studies minor. *Prerequisite: Sophomore standing with a declared major.*

**NPS 320. Nonprofit Management.** 3 credits. *Offered fall and/or spring.*

A study of organizational and management functions in the nonprofit sector. Examination of the unique role of volunteers, boards and public relations in the nonprofit environment. *Prerequisites:* NPS 300 and junior status.

**NPS/FAM/GERN/SOWK 375. Grant Writing for Agencies.** 3 credits.

*Offered on a rotating basis.*

Emphasizing active learning, this course teaches the basics of grant and proposal writing. Efficient research, persuasive prose and the importance of relationships are stressed. Private and corporate philanthropy are examined with guest speakers providing current insights. Students research, write and complete a funding proposal.

**NPS 400. Internship/Practicum in Nonprofit Studies.** 4 credits. (225 hours in agency), 6 credits (400 hours in agency). *Offered fall, spring and summer.*

Supervised internship/practicum experience in a nonprofit organization setting that allows experimental learning and practice experiences. A research or applied paper, learning journal and presentation based on the experience are required. *Prerequisites:* NPS 300, NPS 320 and the discipline specific elective.

**NPS 450. Nonprofit Studies Capstone Seminar.** 3 credits. *Offered spring.*

The capstone seminar is designed to integrate and apply knowledge from the student's major and the nonprofit studies minor. A substantial, individualized project will strengthen the student's capabilities in research and/or applied knowledge, information access, and self-directed learning. *Prerequisites:* NPS 300, NPS 320, NPS 400 and discipline elective. *Related elective may be taken concurrently.*

**NPS 487. Special Topics in Nonprofit Studies.** 3 credits. *Offered when needed.*

Examination of selected topics in nonprofit studies that are of current importance in the nonprofit arena. Course may be repeated for credit. *Prerequisites:* NPS 300 or permission of the instructor.

**NPS 490. Special Studies in Nonprofit Studies.** 1-3 credits.

This course is designed to provide capable nonprofit studies minors an opportunity to complete independent study under faculty supervision. Course may be repeated for credit. *Prerequisites:* NPS 300, NPS 320 and one additional course in the minor or permission of the instructor.

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## Nursing

### Department of Nursing

**NSG 270. Nursing Practicum: Nursing Fundamentals.** 3 credits.

*Offered fall, spring and summer.*

This first course in the nursing curriculum focuses on the foundation of nursing practice. Through didactic learning, students are introduced to basic nursing theory and knowledge that will be applied throughout the student's nursing education. In the laboratory, students learn the cognitive and affective processes and the psychomotor skills necessary for basic clinical practice. The clinical component of the course is a culmination of didactic and hands-on learning where students apply and practice what they have learned through the course.

**NSG 310. Helping Persons in Pain.** 2 credits. *Offered spring.*

This course, open to students from all majors, is an examination of pain, its impact on people, causes, treatments and the role of health professionals. Emphasis is placed on understanding how people experience pain and its effect on quality of life.

**NSG 311. End of Life Care.** 1 credit. *Offered spring.*

Classroom-based exploration of the care of people at the end of life from a multi-disciplinary, holistic perspective. Learning activities include guest speakers, critique of assigned readings, essay and case studies. Students from any related health care major, first year students through seniors are welcome.

**NSG 312. Understanding Cancer.** 1 credit.

This elective course, open to students from all majors, is a non-technical and practical examination for cancer and its causes, prevention, treatments and impact on people. Emphasis is placed on understanding how people experience and survive cancer. This course is tailored to include cancer-related topics that are of interest to students.

**NSG 313. Issues and Applications of Family Caregiving.** 1-2 credits.

*Offered fall, spring and summer.*

Students from any major engage in service learning with clients and staff of Caregivers' Community Network, a program of information, companion care and support for family caregivers. Hours are flexible and activities are tailored to student interests.

**NSG/HTH/HHS/SOWK 314. Rural Health: An Interdisciplinary**

**Approach.** 3 credits. *Offered May.*

Students study, observe and participate in interdisciplinary assessment, planning and delivery of community-based primary health care in partnership with residents and agencies of a host rural county. Learning activities will emphasize rural culture, rural health care and interdisciplinary practice.

**NSG/HHS 315. Risk Management in the Health Care System.** 2 credits.

This course explores current factors having impact on the risk management of the American healthcare system. It explores the many dimensions of risk management and leadership roles, and the dissemination and utilization of risk research in hospitals.

**NSG 316. Problems in Health Care Law.** 2 credits.

This class is organized to highlight the general principles of health care law and examines both the underlying conflicts between public policies and the legal solutions to these problems. It addresses the major organizational, physical and staffing resources that are necessary to deliver quality healthcare in today's world. This course also covers relationships with patients, handling of medical information, financing of health care services, liability issues, determination of death and the handling of dead bodies.

**NSG 317. History of Nursing.** 1 credit.

An elective nursing course that explores fundamental aspects of nursing history including pertinent nursing founders and leaders as well as examination of the many influences that have shaped the nursing profession. Review of nursing within its historical context provides an opportunity to consider changes for the future.

**NSG 318. Prenatal care: Caring for Mom from Conception to Delivery.** 1 credit.

This course is designed to develop an understanding of the need for prenatal care. Prenatal care helps reduce the incidence of the perinatal illness, disability and death by providing health advice and identifying and managing medical and psychosocial conditions and risk factors that can affect the health of the pregnant woman and her child. The course will focus on a healthy lifestyle for the pregnant woman and the knowledge base she will need to implement that healthy life style. Emphasis is placed on nutrition, exercise, diet and antenatal testing that is a part of prenatal care.

**NSG 319. Infants, Children and Adolescents.** 1 credit.

This elective course, open to students from all majors, explores select contemporary topics about infants, children and adolescents. This course is tailored to include topics which are of interest to the students and have a significant impact on the infant, child or adolescent. Topics will be studied from varied viewpoints and how the topic impacts the infant, child, and/or adolescent and their family.

**NSG 330. The Professional Nurse.** 2 credits.

This course provides an overview of the concepts, definitions and character of professional nursing practice within the context of ethical and legal realities of the current healthcare delivery system and of professional nursing practice. The course explores the historical development of nursing as a profession. It promotes self-analysis and socialization as a professional nurse and an understanding of the role and processes for professional nursing practice. It also begins to prepare the student in the nursing program and NCLEX testing. The beginning phases of career management are examined.

**NSG 331. Adult Health I.** 6 credits.

This course focuses on the integration of pathophysiologic and pharmacologic concepts and principles of nursing process, health promotion, risk reduction, clinical decision making and collaborative management of care for adults across the life span experiencing moderate to severe health alterations. *Prerequisite:* NSG 271.

**NSG 332. Psychiatric Mental Health Nursing.** 3 credits.

This course examines the pathophysiology and psychosocial manifestations and the psychopharmacological and psychiatric health nursing treatment of selected mental illness. Analysis of the role and practice of psychiatric mental health nursing both as a nursing specialty and as an integral facet of general nursing are emphasized.

**NSG 333. Health Assessment.** 3 credits.

The health assessment course is designed to develop knowledge and skills necessary to gather, organize and present relevant health data. Emphasis is placed on systematic strategies, frameworks and skills used to conduct both comprehensive and need-specific health assessments for individuals in the context of their family and community.

**NSG 340. The Nurse Researcher.** 3 credits.

This course explores the research process and utilization of research and theory in evidence-based professional practice. It also explores the dissemination and utilization of research in nursing practice. Students learn to critique the nurse and healthcare literature in order to answer a research question that would impact nursing practice.

**NSG 341. Nursing Care of Children and Their Families.** 3 credits.

This course applies the nursing process to the care of well, acutely and chronically ill, and special needs children and their families within the context of their environment. Emphasis is on anatomical, physiological and developmental differences among neonates, infants, children and adolescents that influence care. Theory, research, evidenced-based practice and critical thinking are foundations.

**NSG 370. NSG Practicum: Gerontology.** 1 credit.

Through interactions with older adults, students develop health and developmental assessment skills, and the nursing intervention skills of teaching and therapeutic communication. Emphasis is on holistic developmental assessment of individuals in a family and community context.

**NSG 380. Advanced Skills Lab.** 2 credits.

In this laboratory course, students learn additional psychomotor, cognitive and affective skills that are foundational to nursing practice. Focuses of the course include acute care skills, strategies to manage stress, alternative health techniques and therapeutic group processes.

**NSG 381. NSG Practicum: Acute Adult Health I.** 3 credits.

Students apply concepts, principles, theories and skills in the nursing care of adults experiencing moderate to severe challenges to health. In hospital settings, students are exposed to a wide variety of clinical skills gaining beginning practice in planning and facilitating nursing care for clients and their families.

**NSG 382. NSG Practicum: Nursing Care of Children and Their Families.** 2 credits.

Students apply concepts, principles, theories and skills in the nursing care of children experiencing moderate to severe challenges to health. In hospital settings, students are exposed to a wide variety of clinical skills gaining beginning practice in planning and facilitating nursing care for children and their families.

**NSG 383. NSG Practicum: Psychiatric Mental Health Nursing.** 1 credit.

This practicum exchanges the pathophysiology and psychosocial manifestations, and the psychopharmacological and psychiatric mental health nursing treatment of selected mental illnesses. Analysis of the role and practice of psychiatric mental health nursing both as a nursing specialty and as an integral facet of general nursing are emphasized.

**NSG 430. The Nurse Leader.** 2 credits.

This course covers leadership and management theory, group dynamics and the group process, organizational theory, and 'Change Theory' related to health systems change. This course relates professional nursing practice to patient advocacy, and care coordination, within the context of different economic reimbursement factors relative to the health care delivery system. Career management work continues in this course through a resume, portfolio and interviewing skills workshop.

**NSG 431. Adult Health II.** 6 credits.

This course is a continuation of Adult Health I and focuses on the integration of pathophysiologic and pharmacologic concepts and principles of nursing process, health promotion, risk reduction, clinical decision making and collaborative management of care for adults across the life span experiencing moderate to severe and complex health alterations.

**NSG 432. Women's Health.** 3 credits.

This course focuses on synthesis of concepts and principles utilized in health promotion, risk reduction, clinical decision-making, and management of women's health care. Focuses include women's health issues, perinatal care of mothers and infants and gynecological health.

**NSG 433. Community Health: Health Assessment of Vulnerable Populations in the Community.** 2 credits.

In Part I of this course, students develop the knowledge, skills and ability to conduct and interpret systematic assessments of vulnerable aggregates in community settings. The impact of increasing societal changes and cultural diversity of vulnerability across the life span will be emphasized.

Theoretical concepts of health promotion and disease prevention of vulnerable populations will be presented emphasizing Health People 2010 objectives. Part II of the course will develop the knowledge and skills necessary to gather, organize and present relevant data on target populations and entire community assessments. The influence of political, socio-economic and ecological issues on the health of populations is examined.

**NSG 440. Transition to Practice.** 3 credits.

This course explores current factors having impact on the transition to the professional practice of nursing. It examines personal and professional role importance in the process of health policy formation. Its focus on career planning and preparation for NCLEX testing and professional practice includes simulation-based learning, web-enhanced module-based case studies and NCLEX practice testing. Consideration of future directions, trends and opportunities in health care delivery and professional nursing practice are also examined.

**NSG/HHS 460. Healthcare Informatics.** 2 credits.

This course focuses on the nature and functions of present and future application of health care informatics. Emphasis is on preparing current and future health care professionals to plan, design, collaborate with other health care disciplines, and utilize healthcare informatics for effective health care delivery, health organizational management and improved client outcomes. *Prerequisite: Minimum of sophomore standing.*

**NSG 461. Pathophysiology and Pharmacology.** 4 credits.

This course, offered for RN-BSN program students, provides an examination of complex physiologic responses and clinical sequel in major body systems in relation to pathologic processes. Emphasis is placed upon physiologic compensation and defense responses. Pharmacologic management of pathology is investigated. *Prerequisite: Admission to RN-BSN program.*

**NSG 462. Issues in Contemporary Nursing Practice.** 3 credits.

This course, offered for RN-BSN program students, examines issues and trends of greatest concern to professional nursing practice today. Historical, societal, political, and economic influence and future trends will be explored. Legal and ethical dimensions of nursing will be discussed. A seminar format will be used emphasizing professional presentation of issues. *Prerequisite: Admission to RN-BSN program.*

**NSG 463. Professional Role Transition.** 3 credits.

This course, offered for RN-BSN program students, expands the students' current knowledge of concepts related to nursing theory, nursing image and professional role development at the BSN level. Emphasis will be placed upon leadership and management skill development at the personal level. Seminar format will be used. *Prerequisite: Admission to RN-BSN program.*

**NSG 464. Introduction to Nursing Research.** 3 credits.

This course, designed for RN-BSN students, will focus on the study of research methods that generate quantitative and qualitative data. Students will examine the research process with an emphasis on critique of research methodologies and application of research findings to nursing practice. *Prerequisite: Admission to RN-BSN program.*

**NSG 465. Specialty Clinical Practicum.** 1-5 variable credits.

This course facilitates the RN-BSN student's transition into a professional nursing role through a BSN/faculty mentored practicum experience in a student-selected clinical specialty area. The student will articulate individual objectives. An individual plan to meet the course and student's objectives will be developed by the student and approved by the faculty. Open to SNAPP scholars as well. *Prerequisites: Completion of NSG 333 and NSG 463.*

**NSG 466. Community Health Practicum.** 1 credit.

This practicum, for RN-BSN students, transitions practice into the BSN role through mentored clinical experiences at selected community sites. Emphasis is on collaborative nursing care with individuals, families and groups within the community. Experiences include concepts of health promotion and disease prevention and management of acute or chronic illness. *Prerequisite: Admission to RN-BSN program.*

**NSG 467. School Nursing Practice: Addressing the Health Needs of Vulnerable Populations within the Context of Schools.** 3 credits.

This course focuses on school health services for students with low-incidence disabilities. Content emphasizes the guiding principles of collaborative, comprehensive, coordinated, culturally competent, developmentally appropriate, family-centered and inclusive health and educational service provision. This is a Blackboard course that will be available for students enrolled in the SNAPP program.

**NSG 468. Collaborative Teaming: Working Together to Improve Outcomes for Students with Low-Incidence Disabilities.** 4 credits.

This course focuses on collaborative teaming as an approach to delivering inclusive services to students with low-incidence disabilities. Information on models of teamwork, group decision making, team process, leadership and effective communication will be included. Discussion will focus on the roles of various disciplines and parents and team members. This course is part of the SNAPP Scholars program. *Prerequisite:* NSG 467.

**NSG 469. Caring for the Public's Health: Community Health Nursing.** 3 credits.

This course provides RN to BSN students a perspective of professional nursing at the community level of practice. Course content will provide an overview of specific issues and societal concerns that affect community health nursing practice including historical impact of public health, epidemiology, health promotion and disease prevention; vulnerable populations; communicable disease risk and prevention; and diversity of the role of the community health nurse. *Prerequisite:* Admission to RN-BSN program.

**NSG 470. NSG Practicum: Community as Client.** 2 credits.

This practicum provides a framework for identifying, analyzing and planning for health care needs of vulnerable populations based on the objectives of Health People 2010. The concepts of community as client and population-focused practice are presented with an emphasis on understanding the relationship between individual, family and community needs. Students will use the nursing process to perform community-focused assessment and service learning interventions while applying concepts of health promotion, disease prevention and health education to the care of vulnerable groups.

**NSG 471. Leadership and Management in Health Care.** 3 credits.

This course, offered for the RN to BSN program, focuses on healthcare organizations, leadership theories and management style, organizational change, quality management, fiscal and economic issues, personnel management, and accreditation standards. *Prerequisite:* NSG 463.

**NSG 480. NSG Practicum: Capstone.** 6 credits.

An in-depth focused practicum experience for JMU senior nursing students. The purpose of the capstone experience is to help students gain confidence in time management, critical thinking, diagnostic reasoning, documentation and psychomotor skills under the direct supervision of clinical preceptors.

**NSG 481. NSG Practicum: Acute Adult Health II.** 1 credit.

In this course, students synthesize and apply concepts, principles, theories and skills in the nursing care of adults experiencing moderate to multi-system challenges in health. On acute and critical care nursing units, students will work in small groups to plan and facilitate care for multiple clients.

**NSG 482. NSG Practicum: Home Health Case Management.** 1 credit.

In this setting, students are provided an opportunity to learn and apply case management concepts. Students provide nursing care in the home for persons and families experiencing chronic illness. Using a case management theoretical framework, students coordinate and deliver services through visits with agency nurse case managers with direct care giving responsibilities. Issues of chronic illness, coping and extended care are explored.

**NSG 483. NSG Practicum: Women's Health.** 1 credit.

Working in teams, students coordinate and provide nursing care for women and their families experiencing childbirth or gynecological treatment. Students observe and experience a variety of nursing roles, engage in peer performance appraisal, and promote staff and peer professional development. The application of research findings to practice is emphasized.

## Nutrition

### Department of Health Sciences

**NUTR 140. Contemporary Foods (2, 2).** 3 credits. *Offered fall and spring.*

Basic principles of contemporary food selection, purchasing, planning, preparation and service. Laboratory activities acquaint the student with the preparation and evaluation of quality products in the various food groups.

**NUTR 280. Nutrition for Wellness.** 3 credits. *Offered fall and spring.*

Students will study the impact of nutrition on wellness by learning nutrients, their functions in the human body, food sources and appropriate intake levels. Controversies surrounding use of various nutrients for improvement of health and well-being will be discussed.

**NUTR 295. Foundations of Nutrition Practice.** 2 credits. *Offered spring.*

An introduction to the profession of dietetics, credentialing processes in nutrition/dietetics, careers available in the field and some basic skills needed for the profession.

**NUTR 360. Management in Dietetics.** 3 credits. *Offered fall.*

Application of management concepts, theories and principles to dietetics with a focus on the work environments (clinical and foodservice) in which registered dietitians must effectively practice. *Prerequisites:* Dietetics majors only. NUTR 280, NUTR 295 or permission of instructor.

**NUTR 362. Food Service Systems.** 3 credits. *Offered spring.*

An integration of menu planning, food procurement, equipment selection and layout to provide quality food service in a variety of food systems. *Prerequisite:* NUTR 280 or equivalent.

**NUTR 363. Quantity Food Production (1, 6).** 3 credits. *Offered fall and spring.*

The principles of quantity food production and service are studied. *Prerequisites:* NUTR 140, NUTR 280 and prior arrangement with the instructor.

**NUTR 380. Global Nutrition.** 3 credits. *Offered fall and spring.*

A study of food habits from around the world and their contributions to nutritional adequacy. Factors affecting global food consumption behaviors including sociocultural practices, religion, health beliefs, agricultural practices, economics, politics and education are explored.

**NUTR 382. Sports Nutrition.** 3 credits. *Offered fall.*

A study of the relationship of nutrition and athletic performance. Identification of the effects of age, sex, body build, environment and state of health on energy needs and energy sources during physical activity. *Prerequisite:* NUTR 280.

**NUTR 384. Clinical Nutrition I.** 3 credits. *Offered spring.*

This course introduces nutrition as a disease therapy and the role of the clinical dietitian as a member of the health care team. Topics covered include nutrition screening and assessment, medical records documentation, basic dietary modifications and patient/family counseling. *Prerequisites:* NUTR 140, NUTR 280 and NUTR 395.

**NUTR 385. Nutrition Throughout the Life Cycle.** 3 credits. *Offered fall.*

A study of the nutritional needs throughout the life cycle and the development of food habits. Nutrition assessment and nutrition education from prenatal health through infancy, childhood, adolescence, adulthood and old age are emphasized. *Prerequisite:* NUTR 280.

**NUTR 386. Community Nutrition.** 3 credits. *Offered spring.*

A study of human nutrition and health problems from a community perspective, programs and policies related to nutrition at local, state and federal levels including preventive nutrition or wellness and approaches and techniques for effective application and dissemination of nutrition knowledge in the community. *Prerequisite:* NUTR 280.

**NUTR 395. Introduction to Patient Care in Dietetics.** 2 credits. *Offered fall.*

A study of the concepts of patient care in dietetics, skills needed for medical nutrition therapy and the dietitian's role on the health care team. *Prerequisite:* Must be dietetics major, NUTR 280.

**NUTR 446. Experimental Foods (1, 4).** 3 credits. *Offered fall.*

An introduction to research in foods. Different techniques of food preparation are studied and evaluated for the most acceptable methods to obtain standard food products. *Prerequisites:* NUTR 140, organic chemistry and statistics.

**NUTR 455/ KIN 424. Theories and Practices of Weight Management.** 3 credits. *Offered spring.*

An examination of the physiological, psychological and environmental theories of obesity. Current trends in obesity research are emphasized. A case study and laboratories are used to provide students with practical experience in constructing a weight management program. *Prerequisite:* BIO 270, BIO 290, NUTR 280 or permission of the instructor.

**NUTR 460. Computer Systems for Foods and Nutrition.** 3 credits.

*Offered spring.*

Introduction to food and nutrition computer systems. Emphasis is placed on the role of computers in nutritional assessment, food service administration, nutrition education and food technology. *Prerequisites:* NUTR 360 and successful completion of the Tech Level I test.

**NUTR 482. Nutrition and Metabolism (2, 2).** 3 credits. *Offered fall.*

A study of the nutrients, their roles in intermediary metabolism, the effects of genetic errors in metabolism, nutritional deficiencies and means of assessing nutritional status. Agencies and programs concerned with nutrition and health and current trends in nutrition research are emphasized. *Prerequisites: NUTR 280, physiology, biochemistry, statistics, and previous or concurrent anatomy.*

**NUTR 484. Clinical Nutrition II (2, 2).** 3 credits. *Offered spring.*

A study of the use of diet in preventing illness and as a means of treating disease. Emphasis is given to patient education. *Prerequisites: NUTR 384 and NUTR 482.*

**NUTR 490. Field Experience in Dietetics.** 3 credits. *Offered summer.*

Students participate in field experience relating to their major area of dietetics and their career goals under the coordination of a dietetics faculty member. On-the-job supervision will be provided by the participating hospital dietitians. *Prerequisites: NUTR 384, NUTR 395. Application for enrollment must be completed through the course instructor in the fall semester prior to the summer in which it will be taken. Cumulative GPA of 2.0 required.*

**NUTR 495. Senior Seminar in Dietetics.** 2 credits. *Offered fall.*

Students will be introduced to research in dietetics and conduct a senior research project. *The Code of Ethics and Standards of Practice of the American Dietetic Association* will be investigated, and students will prepare for their postgraduate dietetic internship.

**NUTR 496. Special Studies in Nutrition/Dietetics.** 1-3 credits. *Offered fall and spring.*

This course is designed to give the student in dietetics an opportunity to complete independent study, professional conference participation and/or research under faculty supervision. *Prerequisite: Permission of the coordinator of the dietetics program.*

**NUTR 499. Honors.** 6 credits. *Offered fall and spring.*  
Year course.

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## Philosophy

### Department of Philosophy and Religion

**GPHIL 101. Introduction to Philosophy.** 3 credits. *Offered fall and spring.*

An introduction to the basic problems and concepts of philosophy – the nature of man and the self, ethics, theories of knowledge, philosophy of religion, etc. as revealed in the writings of major philosophers.

**GPHIL 120. Critical Thinking.** 3 credits. *Offered fall and spring.*

An introduction to the techniques for analyzing and evaluating information in everyday experience. The functions of language will be discussed. Techniques for judging the strengths of arguments and the probable truth of the arguments' premises will be examined.

**PHIL 210. Philosophy Through Film.** 3 credits. *Offered summer.*

This course combines feature length films and classic philosophical writings as points of departure for considering perennial philosophical questions such as: What is real? (Metaphysics) How can I know? (Epistemology) What is of value? (Morality).

**PHIL/REL 218. Philosophy of Religion.** 3 credits. *Offered fall.*

An intensive examination of religion from the standpoint of philosophical thinking with particular emphasis on the way philosophers view such problems as the existence of God, evil, immortality, religious language, etc.

**PHIL 250. Introduction to Symbolic Logic.** 3 credits. *Offered fall and spring.*

An introduction to the languages and techniques of propositional logic and first-order quantification theory.

**PHIL 262. Problems in Applied Ethics.** 3 credits.

Ethical theories are used to analyze contemporary moral issues in areas such as business and health care. Course content varies.

**PHIL 270. Introduction to Ethics.** 3 credits. *Offered fall and spring.*

An introductory study of the basic ethical theories past and present with some application to moral problems.

**PHIL 285. Philosophy, Art and Literature.** 3 credits.

This course will study artistic works (literary or otherwise) for their philosophical content. Related issues in the philosophy of art for example, the nature of tragedy, theories of interpretation may also be considered.

**PHIL 300. Knowledge and Belief.** 3 credits.

An extensive examination of theories of knowledge and philosophical problems concerning knowledge and belief. *Prerequisite: GPHIL 101 or permission of the instructor.*

**PHIL/ART 305. Seminar in Aesthetics.** 3 credits. *Offered fall and spring.*

Readings and discussions in the persistent philosophical problems of the arts, centering on consideration of the work of art, the artist and the audience. *Prerequisite: GART 200, GARTH 205, GARTH 206 or GPHIL 101.*

**PHIL 310. Symbolic Logic.** 3 credits.

The study and application of the principles and techniques of modern deductive logic to natural language. Also, examination of the properties of formal systems and of the logical implications and paradoxes of language. *Prerequisite: PHIL 250 or consent of the instructor.*

**PHIL 311. Metaphysics.** 3 credits.

Examination of central questions regarding the fundamental nature of reality. Possible topics: universals and particulars, possibility and necessity, mind and body, identity over time, free will causality, time and God. *Prerequisite: At least one other philosophy course or approval of the instructor.*

**PHIL/IA 312. Causal Analysis.** 3 credits.

Examines causal analysis in national, military, counter-, and competitive intelligence. By assessing a factor's amount and kind of efficacy, students will learn the most reliable methods for distinguishing between relevant/irrelevant events and factors, identifying and excluding pseudo-causes, and anticipating higher order effects of a causal process. *Prerequisite: IA 261 or permission of instructor.*

**PHIL/IA 313. Counterfactual Reasoning.** 3 credits.

Examines counterfactual reasoning in national, military, counter-, and competitive intelligence. By analyzing alternate scenarios and their consequences, students will learn the most relevant methods for employing creative thinking in generating, developing, and assessing possibilities; substantiating after-action reports, and structuring futures analysis. *Prerequisite: IA 261 or permission of instructor.*

**PHIL 314. Rational Decision Theory.** 3 credits. *Offered fall.*

Explores the fundamental principles of making reasonable choices. The course considers both the conceptual, epistemological and logical insights of these principles, as well as applies them to numerous real-world cases faced by recent decision-makers in areas such as intelligence, information analysis, business or politics. *Prerequisite: GPHIL 120 or instructor consent.*

**PHIL 315. Logic and Legal Reasoning.** 3 credits.

Application of symbolic logic (first-order logic with identity) to legal language and deductive legal argument. Will include close logical analysis of at least one of the following: Supreme Court brief, Supreme Court decision, Supreme Court oral argument. *Prerequisite: PHIL 250 or instructor consent.*

**PHIL 320. Inductive Logic.** 3 credits.

Introduction to inductive logic and philosophical problems it raises. Topics discussed: the traditional problem of induction, the Goodman paradox and the new riddle of induction, the probability calculus and kinds of probability, Mill's methods of experimental inquiry and the nature of causality, abduction (inference to the best explanation) and confirmation theory.

**PHIL 325. Crime, Punishment and Justice.** 3 credits. *Offered fall.*

Theories of criminal punishment are examined in the context of philosophical theories of justice and in conjunction with material from the social sciences on crime, criminal offenders and the effects of penal sanctions.

**PHIL 330. Moral Theory.** 3 credits. *Offered fall and spring.*

An examination, at the intermediate level, of both classical and contemporary moral theories. Critical analysis of the normative and meta-ethical issues these theories raise.

**PHIL 335. The Individual, the State and Justice.** 3 credits. *Offered fall.*

Mid-level class in political philosophy. Will read classic and/or contemporary texts in philosophy influential on political thought. Focus may be on views of the justification for and role of the state. Consideration may also be given to the proper relationship of individuals and the state, political freedom autonomy. *Prerequisite: GPHIL 101 or approval of the instructor.*