Writing in the Sciences
840 Fall, Spring, Summer. 2(2-0) A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Arts and Letters. Discussion and critique of students’ writing in peer response workshop groups.

Ophthalmology
Department of Neurology and Ophthalmology
College of Osteopathic Medicine

Medical Neuroscience
552 Spring. 4(3-2) Interdepartmental with Physiology; Radiology; Human Anatomy. R: Graduate-professional students in the College of Human Medicine and Osteopathic Medicine. SA: ANT 552
Correlation of normal structure and function of the human nervous system with clinical testing, classical lesions, and common diseases.

Special Topics in Clinical Neuroscience
590 Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. Work under the direction of a faculty member on an experimental, theoretical or applied problem in clinical neuroscience or neurology.

Neurology Clerkship
617 Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. RB: (MED 608) R: Open only to graduate-professional students in College of Human Medicine. SA: MED 617
Office and inpatient experience. Evaluation and management of neurological disease.

Directed Studies
620 Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 24 credits in all enrollments for this course. RB: Completion of Semester 6 in the graduate-professional program. R: Open only to graduate-professional students in the College of Osteopathic Medicine. Study in general or specialty neurology and ophthalmology.

Neurology Clerkship
656 Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to graduate-professional students in the College of Osteopathic Medicine upon completion of Units I and II. SA: PMR 656
Clinical exposure in neurology. Program structure developed to achieve proficiency in motor skills, aptitudes; comprehension of concepts and principles; patient evaluation, diagnosis, management, and therapy.

Program in Neuroscience
800 Fall, Spring, Summer. 1(1-0) A student may earn a maximum of 8 credits in all enrollments for this course. RB: Bachelor's degree in neuroscience, biological or psychological science, or related area. Readings, presentations, and discussions of research literature in neuroscience. Professional development.

Molecular and Developmental Neurobiology
804 Fall, Spring, Summer. 3(3-0) Interdepartmental with Pharmacology and Toxicology; Psychology; Pathology; Zoology. RB: Bachelor's degree in a Biological Science or Psychology. R: Open only to graduate students in the Neuroscience major. Nervous system specific gene transcription and translation. Maturation, degeneration, plasticity and repair in the nervous system.

Advanced Neuroscience Techniques Laboratory
806 Spring. 3(0-9) Interdepartmental with Psychology; Pharmacology and Toxicology; Radiology; Physical Medicine and Rehabilitation. RB: (PHM 827) R: Open only to doctoral students in the Neuroscience major. Methods and underlying principles of neuroscience research.

Advanced Behavioral Neuroscience
811 Spring. 3(3-0) Interdepartmental with Psychology. Administered by Department of Psychology. RB: (PSY 411) approval of department. R: Open only to graduate students in the Psychology and Neuroscience major. Biological mechanisms involved in learning and memory, motivated behaviors, biological rhythms, and psychopathologies.

Advanced Neuroanatomy
820 Summer of odd years. 1 to 5 credits. A student may earn a maximum of 12 credits in all enrollments for this course. Interdepartmental with Human Anatomy. R: Approval of department. Current topics in anatomy and physiology processes of central nervous system cells.

Neurology Clerkship
835 Fall, Spring, Summer. 3(3-0) Interdepartmental with Epidemiology. Administered by Department of Epidemiology. RB: (EPI 810) Epidemiology of neurolologic conditions and discussion of the inherent difficulty in studying these disorders.

Physiology and Pharmacology of Excitable Cells
827 Fall, Spring. 4(4-0) Interdepartmental with Pharmacology and Toxicology. R: Bachelor's degree in Neuroscience, biology, psychology, or related area. Supervised student research on a specialized research topic in basic or clinical neuroscience.

Independent Study in Neuroscience
890 Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. RB: Bachelor's degree in Neuroscience, biology, psychology, or related area. Supervised student research on a specialized research topic in basic or clinical neuroscience.

Master's Thesis Research
899 Fall, Spring, Summer. 1 to 36 credits. A student may earn a maximum of 99 credits in all enrollments for this course. Master's thesis research.

Advanced Topics in Neuroscience
992 Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course. RB: (NEU 804 and NEU 811 and NEU 827 and ANT 839) Bachelor's degree in Neuroscience, biology, psychology or related area. Readings, presentations and discussion of specialized topics in neuroscience.

Doctoral Dissertation Research
999 Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 120 credits in all enrollments for this course. Doctoral dissertation research.

Nursing
College of Nursing

Exploring Nursing
110 Fall, Spring. 2(2-0) Introduction to the bio-psycho-social conceptual model of persons in relation to nursing and health. Core concepts and theoretical foundations that frame the art and science of nursing. Development of the profession from inception into contemporary practice and its relationship to the U.S. healthcare system.
202 Introduction to Nursing Practice I
Fall, 2(1-3) R: Open only to students admitted to the College of Nursing.
Theoretical concepts of nursing necessary for professional practice. Assessment, interpersonal communication, documentation, and decision-making.

204 Introduction to Nursing Practice II

215 Core Competencies in Nursing I
Fall, Spring, 1(1-0) R: Open only to students in the College of Nursing. Assessment core nursing competencies applying natural, social and nursing science.

300 Pathophysiology
Fall, Spring, 4(4-0) P:M: (ANTR 350 and PSL 250) Not open to students with credit in NUR 341. Abnormal physiological health transitions over the lifespan. Disorders affecting cells, organs, and systems involved in the regulation of structure and function within the human organism. How diseases affect the structures, functions, and systems of the human organism. Influence of genetics, ethnicity, environment, and age.

303 Concepts of Nursing Care of the Adult
Fall, Spring, 4(4-0) P:M: (NUR 204 and NUR 341) C: NUR 304 concurrently. Family centered nursing care for adults at various levels of health and illness. Prototype health states with emphasis on associated nursing diagnosis and professional standards of care.

304 Practicum in Nursing Care of the Adult
Fall, Spring, 4(0-12) P:M: (NUR 204 and NUR 341) C: NUR 303 concurrently. Nursing care of the adult client with an emphasis on health promotion, disease prevention, care in acute and chronic illness, and rehabilitation.

305 Concepts of Nursing Care of the Childbearing Family
Fall, Spring, 4(4-0) P:M: (NUR 204 and NUR 341) C: NUR 306 concurrently. Concepts of holistic nursing care with culturally diverse childbearing families during the prenatal, intrapartum, and postpartum periods. Concepts of health promotion and risk factors in client care situations.

306 Practicum in Nursing Care of the Childbearing Family
Fall, Spring, 3(0-9) P:M: (NUR 204 and NUR 341) C: NUR 305 concurrently. Practicum in nursing care with culturally diverse childbearing families during the prenatal, intrapartum and postpartum periods. Implementation of nursing process in various settings. Levels of risk reduction and health promotion.

307 Concepts of Nursing Care of Children and Their Families
Fall, Spring, 3(0-3) P:M: (NUR 204 and NUR 341) C: NUR 308 concurrently. Theory and concepts related to the holistic care of children (infancy through adolescence) and their families.

308 Practicum in Nursing Care of Children and Their Families
Fall, Spring, 3(0-9) P:M: (NUR 204 and NUR 341) C: NUR 307 concurrently. Clinical application of the theoretical concepts presented in NUR 307. Variety of health settings will be utilized for clinical practice.

313 Transition to Baccalaureate Nursing and Online Learning
Fall, 1(1-0) R: Open only to students in the RN tracking major. Issues, role and scope of baccalaureate nursing practice. Concepts of and applications in online learning.

314 Transition to Professional Nursing
Fall, Spring, 4(3-3) Fall: R: Open only to Registered Nurses in the College of Nursing. Concepts and practicum for role transition for Registered Nurses seeking degree completion. Assessment, documentation, interpersonal skills and concepts of aging with emphasis on clinical decision making and socialization to professional role.

315 Core Competency in Nursing II
Fall, Spring, 1(1-0) P:M: (NUR 215) R: Open only to students in the College of Nursing. Continuation of assessment core of nursing competencies integrating natural, social, and nursing science.

316 Health and Physical Assessment
Fall, 3(6-1) R: Open only to students in the RN tracking major. Health and physical assessment, documentation and interpersonal skills. Concepts of aging and cultural competence within the context of clinical decision-making.

317 Introduction to Nursing Theory and Research
Spring, 3(3-0) P:M: (STT 200 or STT 201) and completion of Tier I writing requirement. R: Open only to students in the College of Nursing except students in PreNursing. Major nursing theories and their application to practice. The research process, terminology and investigations undertaken in nursing.

318 Health Assessment and Nursing Therapeutics
Fall, Spring, 7(3-10) P:M: (NUR 300) C: PHM 340 concurrently, NUR 350 concurrently. Normal physiology and pathophysiology. Theories of growth and development across the life span. Therapeutic communication and physical, psychosocial, cultural and spiritual assessment techniques and mastery of basic nursing therapeutics. Understanding the significance of abnormal findings by system across the lifespan.

319 Foundations of Nursing Practice
Fall, Spring, 4(4-0) P:M: (NUR 300) and completion of Tier I writing requirement. C: PHM 350 concurrently, NUR 330 concurrently, NUR 350 concurrently. Theories and principles underlying professional nursing practice. Development of basic principles for using empirical evidence and the research process to guide practice.

321 Clinical Problems in Adaptation
Spring, 3(3-0) R: Open only to students in the College of Nursing except students in PreNursing. Theoretical concepts related to individual's adaptive-maladaptive responses to stress. Emphasis on pathophysiology.

350 Level I Integrative Seminar
Fall, Spring, 1(2-4) P:M: (NUR 300) C: NUR 330 concurrently, NUR 340 concurrently, PHM 350 concurrently. Integration of concepts and theories into beginning level nursing practice. Examination of dynamic interrelationships between professional, scholarly nursing practice, and the health and wellness of diverse persons and populations across the life span.

360 Acute Nursing Care of Adults and Older Adults
Fall, Spring, 8(4-12) P:M: (NUR 350) C: NUR 370 concurrently, NUR 380 concurrently. Intensive theory course integrating foundational pharmacology, pathophysiology, and first level nursing courses. Addressing acute and chronic conditions in an acute care setting.

370 Mental Health and Psychiatric Nursing

380 Level II Integrative Seminar
Fall, Spring, 1(2-4) C: NUR 360 concurrently. Extension of beginning level concepts and theories. Integration of these into advanced beginning level nursing practice. Dynamic interrelationships between professional, scholarly nursing practice, and health and wellness of diverse adults with medical-surgical and psychiatric illnesses.

400 Pharmacology for Nurses
Spring, 3(3-0) P:M: (NUR 313 and NUR 316 and NUR 341) C: NUR 310 concurrently. Principles of nursing management in drug therapy, drug classifications and patient-related variables. Assessment and evaluation of patient responses in relation to health, age, lifestyle, gender, ethnicity and other cultural factors.

401 Aging and Health in the United States
Spring, 3(3-0) Aging and health in the United States from an individual, family and societal perspective. Examination of selected normal aging changes, theories, concepts, myths and factors associated with healthy aging and quality of life.

402 International Health
Summer of even years, 3(3-0) Factors and dynamics that affect the health of human populations and population status. Role of national governments and international agencies in the policy and planning of health care resources and services.

407 Concepts in Community Health Nursing
Summer, 2(1-3) P:M: (NUR 313 and NUR 316 and NUR 341 and NUR 400) R: Open only to students in the RN tracking major. Theoretical foundation for contemporary community and public health nursing practice.
Nursing—NUR

409 Concepts of Psychiatric, Mental, and Community Health Nursing
Fall, Spring. 4(4-0) P:M: Completion of Tier I writing requirement. R: Open only to students in the College of Nursing except students in PreNursing. Health care trends and issues in public and mental health. Role, responsibilities, and activities of nurses in the provision of care in public and mental health.

410 Practicum in Community Health Nursing
Fall, Spring. 3(0-9) P:M: Completion of Tier I writing requirement. R: Open only to students in the College of Nursing except students in PreNursing. C: NUR 409 concurrently. Clinical experience in community health nursing focusing on application of public health and nursing principles in the care of individuals, families, and aggregates in a variety of settings.

412 Practicum in Psychiatric and Mental Health Nursing
Fall, Spring. 3(0-9) R: Open only to students in the College of Nursing except students in PreNursing. Theoretical perspectives of behavior applied to mental health nursing in a practice setting. Advanced concepts of communication. Use of self, group, and milieu are used to define the nurse’s role.

413 Issues in Professional Nursing
Fall, Spring. 2(2-0) P:M: Completion of Tier I writing requirement. R: Open only to students in the College of Nursing. Past, current, and future impact of selected legal, economic, educational, social, political, ethical, and professional forces on health care and nursing practice at local, national, and international levels.

415 Core Competencies in Nursing III
Fall, Spring. 1(1-0) P:M: (NUR 319) R: Open only to students in the College of Nursing. Advanced assessment core of nursing competencies synthesizing natural, social, and nursing science.

416 Leadership and Management in Nursing
Fall, Spring. 3(1-2) R: Open only to students in the College of Nursing. Not open to students with credit in NUR 420. Roles and responsibilities related to leadership and management in nursing practice. Impact of management theories and processes on nursing practice and the delivery of health care within organizations.

420 Senior Practicum in Nursing
Fall, Spring. 4(1-0) R: Open only to students in the College of Nursing except students in PreNursing. Synthesis and application of nursing concepts as they relate to health care delivery in a variety of health care settings.

422 Nursing in Great Britain
Summer. 5(5-0) R: Open only to students in the College of Nursing. Not open to students in PreNursing. Historical evolution of nursing in the National Health Service: British nursing education, hospital and community health nursing, standards of care, research, and management. Influence of professional nursing upon British national health policies.

424 History of Nursing in the United States
Spring. 2(2-0) R: Open only to students in the College of Nursing except students in PreNursing. Development of professional nursing education and practice from its inception in the United States. Reading historical documents and identifying specific concepts relative to nursing history. Historical research as a valid means of scholarly inquiry.

428 Multicultural Aspects of Health Care
Spring. 3(3-0) P:M: (NUR 304 and NUR 306 and NUR 308) R: Open only to students in the College of Nursing. Identifying learned stereotypes and methods to overcome them to facilitate and enhance effective care provision.

430 Nursing Care of the Critically Ill Client
Fall, Spring. 3(2-3) P:M: (NUR 304 and NUR 306 and NUR 308) R: Open only to students in the College of Nursing. Theoretical perspectives of behavior applied to critical care for critically ill clients. Identification of learned stereotypes and methods to overcome them to facilitate and enhance effective care provision.

435 Nursing Care of the Childbearing Family
Fall, Spring. 4(2-6) P:M: (NUR 360 and NUR 350 and NUR 380) C: NUR 440 concurrently, NUR 450 concurrently. Health promotion and risk assessment of individuals and families during pregnancy and birth. Therapeutic communication and assessment skills for providing holistic care to culturally diverse childbearing families during the prenatal, intrapartum, and postpartum periods. Caring for mother and baby in utero and after birth.

440 Nursing Care of Children, Adolescents and Their Families
Fall, Spring. 4(2-6) P:M: (NUR 360 and NUR 370 and NUR 380) C: NUR 435 concurrently, NUR 450 concurrently. Theoretical concepts and clinical application of nursing care of infants, children, and adolescents in varied health care and community settings. Synthesis of pathophysiology, pharmacologic, and therapeutic concepts. Family-centered care of children within developmental, cultural, ethnic, religious, and social structures.

450 Level III Integrative Seminar
Fall, Spring. 1(2-0) P:M: (NUR 360 and NUR 370 and NUR 380) C: NUR 435 concurrently, NUR 440 concurrently. Extension of advanced beginning level concepts and theories. Integration of these into intermediate level nursing practice. Dynamic interrelationship between professional, scholarly nursing practice and health and wellness of diverse families, from childhood through adolescence.

460 Leadership Clinical Immersion
Fall, Spring. 5(2-9) P:M: (NUR 435 and NUR 440 and NUR 450) and completion of Tier I writing requirement. C: NUR 470 concurrently, NUR 480 concurrently. Theories, principles, and practices of leadership, management, and nursing care delivery systems in a variety of agency settings. Application of theories and principles in a mentored practicum.

470 Community and Population Health Nursing
Fall, Spring. 4(2-6) P:M: (NUR 430 and NUR 440 and NUR 450) C: NUR 460 concurrently, NUR 480 concurrently. Theoretical and practicum basis for community-oriented population nursing practice. Promoting and protecting the health of the public using health promotion, risk reduction, and disease management and control strategies with vulnerable persons and populations. Community assessment, epidemiologic, environmental, change, political action, and case-management frameworks are used to guide evidence-based nursing care delivery to persons, families, and populations in community settings.

480 Role Transition Seminar
Fall, Spring. 2(4-0) P:M: (NUR 435 and NUR 440 and NUR 450) and completion of Tier I writing requirement. C: NUR 460 concurrently, NUR 470 concurrently. Capstone seminar integrating advanced level concepts and theories to prepare students for entry-level practice as a clinical nurse leader. Dynamic interrelationship between professional, scholarly nursing practice, and health and wellness of diverse populations and health care organizations.

490 Independent Study in Nursing
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to students in the College of Nursing except students in PreNursing. Approval of college. Individualized area of study in Nursing.

491 Special Topics
Fall, Spring, Summer. 2 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to students in the College of Nursing except students in PreNursing. Exploration of selected issues in nursing.

801 Advanced Professional Role
Fall. 2(2-0) R: Open only to master's students in the College of Nursing. SA: NUR 501 Exploration of the roles of the Master of Science in Nursing graduate in contemporary health care organizations. Cost and value of the MSN. Role in collaborative care and managed care. Evaluation of individual impact on quality of health care.

803 Conceptual and Theoretical Frameworks
Fall. 3(3-0) R: Open only to master's students in the College of Nursing or approval of college. Conceptual and theoretical frameworks and their applicability to advanced nursing practice, teaching, and research.

805 Pathophysiology for Advanced Practice Nursing
Fall. 3(3-0) R: Open only to master's students in the College of Nursing or approval of college. SA: NUR 511 Alterations of various physiological systems. Pathophysiology of frequently encountered primary care conditions across the life span and special populations and high-risk, high-utilization populations. In-depth case analysis of risk factors, pathophysiological changes, and associated clusters of signs and symptoms. Pathophysiological theories and research as a basis for advanced practice nursing.

807 Clinical Decision Making
Spring. 3(2-3) P:M: (NUR 805) and (NUR 820 or NUR 830) R: Open only to master's students in the College of Nursing. Clinical decision making in advanced practice nursing. Decision theory and related concepts. Application of critical thinking and clinical judgment to differential diagnoses of common primary care conditions.

809 Applied Pharmacology for Primary Care
Spring. 3(3-0) P:M: (NUR 805) R: Open only to master's students in the College of Nursing. Clinical application of advanced pharmacology and pharmacotherapeutics for common disease conditions encountered in primary care settings. Principles of altered pharmacodynamics relative to age, race, and ethnic groups. Cost/benefit aspects of pharmacological interventions.
810 Issues in Community-Based Care
Spring, Summer. 3(3-0) P:M: (NUR 801 and NUR 803)
Conceptual basis for the analysis of health care issues. Health promotion, risk reduction, health disparities, evidence and population-based health care. Cultural competence and ethical issues related to health care within the context of primary care.

815 Research and Evaluation for Advanced Practice Nurses
Spring. 4 to 5 credits. R: Open only to master's degree students in the College of Nursing or approval of college. SA: NUR 811, NUR 813
Principles of scientific research, including research design, measurement, sampling and analysis encountered in clinical literature and evaluation research.

820 Health Assessment of the Family
Fall. 2(0-6) R: Open only to master's students in the College of Nursing or approval of College. SA: NUR 811, NUR 813
Collection of comprehensive subjective and objective data for practice as a family advanced practice nurse. Development of advanced health history and physical assessment skills of adults across the lifespan. Interview, communication, and psychomotor skill development.

821 Primary Care Management of the Family I
Summer. 4(4-0) P:M: (NUR 801 and NUR 803 and NUR 807 and NUR 809 and NUR 815 and NUR 820) SA: NUR 822
Principles and issues of health care management for family advanced practice nurses in primary care. Health promotion, disease prevention, and single acute problems of individuals across the life span and for diverse populations. Analysis of primary care practice topics using family frameworks and evidence based research.

822 Practicum I: Primary Care for the Family
Fall. 6(0-18) P:M: (NUR 815 and NUR 821) SA: NUR 822

823 Primary Care Management of the Family II
Fall. 3(3-0) P:M: (NUR 815 and NUR 821) SA: NUR 824
Principles and issues of health care management for family advanced practice nurses in primary care. Health care management of clients across the life span with chronic, stable and/or multiple complex problems. Integration and synthesis of relevant frameworks.

824 Practicum II: Primary Care for the Family
Spring. 7(0-21) P:M: (NUR 822 and NUR 823) SA: NUR 824
Integration of assessment and applied theory in primary care management of clients across the lifespan. Collaborative model of primary care practice. Health care management of chronic, stable and multiple complex problems of individuals within the context of family. Increasingly independent decision making with preceptor validation.

830 Health Assessment of Older Adults
Fall. 2(0-6) R: Open only to master's students in the College of Nursing or approval of college. SA: NUR 820 Collection of comprehensive subjective and objective data for practice as a gerontological advanced practice nurse. Development of advanced health history and physical assessment skills of adults, focusing on older adults. Interview, communication, and psychomotor skill development.

831 Primary Care Management of Older Adults I
Summer. 4(4-0) P:M: (NUR 801 and NUR 803 and NUR 807 and NUR 809 and NUR 815 and NUR 830) SA: NUR 832

832 Practicum I: Primary Care for Older Adults
Fall. 6(0-18) P:M: (NUR 815 and NUR 831) SA: NUR 832
Integration of assessment and applied theory in primary care management of older clients from a variety of ethnic and cultural groups. Collaborative model of primary care practice. Evaluation and treatment of infectious states. Care of chronic, stable conditions. Practice issues including ethical, legal, and political aspects of advanced practice nurses.

833 Primary Care Management of Older Adults II
Fall. 3(3-0) P:M: (NUR 815 and NUR 831) SA: NUR 834

834 Practicum II: Primary Care for Older Adults
Spring. 7(0-21) P:M: (NUR 832 and NUR 833) SA: NUR 834

841 Health Care Policy in Perspective: Economics, Politics and Ethics
Spring. 2(2-0) SA: NUR 803
Economic, political and regulatory environment of the U.S. health care system. Quality, costs, equity in access of services. Comparison of U.S. systems with those of other advanced industrial countries.

845 Women and Health in the United States: A Sociological and Nursing Perspective
Spring. 3(3-0) R: Open only to seniors or graduate students. SA: NUR 845
Health status of contemporary women. Role of women as consumers and providers of health care. Health care delivery in the U.S.
Nursing—NUR

890 Special Problems
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this course. R: Open only to master's students in the College of Nursing or approval of college. SA: NUR 590 Individual or group in-depth study of specific areas in nursing. Independent study.

891 Selected Topics
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to master's students in the College of Nursing or approval of college. SA: NUR 591 Selected issues, trends, programs, or theories in nursing.

899 Master's Thesis Research
Fall, Spring. 1 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. RB: (NUR 811) R: Open only to master's students in the College of Nursing. Approval of college. Master's thesis research.

901 Knowledge Development in Nursing
Fall. 3(3-0) R: Open only to doctoral students in the College of Nursing or approval of college. Development and growth of substantive knowledge within nursing. Middle range theories. Strategies for concept development and theory testing in nursing research for understanding health status and health outcomes for individuals, families and community-based primary care.

910 Health Status Outcomes: The Individual and Family
Spring. 3(3-0) R: Open to all doctoral students or approval of college. Measurement and conceptual underpinnings of health status outcomes for individuals and families across the life span. Focus on well-being in health and illness within community based primary care.

911 Health Status Outcomes: Community/Primary Care
Fall. 3(3-0) R: Open to all doctoral students or approval of college. Measurement of health status outcomes for populations across the life span within the community based primary care systems. Measurement and evaluation issues related to the costs of intervention to impact outcomes.

920 Translation of Research and Scientific Knowledge to a Community Setting
Spring. 3(2-3) R: Open only to doctoral students in the College of Nursing or approval of college. The systematic application of scientific knowledge to inform clinical practice, policy and delivery system changes to enhance the health status and health outcomes of community populations. Translation strategies include dissemination, networking, program development and evaluation. Opportunities for translation will occur in primary health care, organizational and governmental systems.

930 Methods In Clinical Research
Spring. 3(2-3) R: Open to all doctoral students or approval of college. Advanced research designs, measurement and data collection strategies. Draws on a broad range of behavioral and health disciplines relevant to nursing. Logic of statistical models used in the evaluation of research designs and measures.

940 Research Practicum
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to doctoral students in the College of Nursing or approval of college. Practical experiences as a researcher through participation in ongoing research of nursing faculty and as a member of an interdisciplinary research team.

990 Special Problems
Fall, Spring, Summer. 1 to 4 credits. R: Open only to doctoral students in Nursing or approval of college. Individual or group in-depth study of specific areas in nursing research.

999 Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 24 credits. R: Open only to doctoral students in the College of Nursing or approval of college. Original research of student under supervision of major advisor.

611 Reproductive Endocrinology and Infertility Clerkship
Fall, Spring, Summer. 4 to 6 credits. RB: (OGR 608) R: Open only to graduate-professional students in College of Human Medicine. Added exposure to clinical problems in reproductive endocrinology and female infertility primarily in ambulatory setting. Occasional participation in inpatient experiences. Assisted reproductive technologies.

612 Gynecologic Oncology Clerkship
Fall, Spring, Summer. 4 to 6 credits. RB: (OGR 608) R: Open only to graduate-professional students in College of Human Medicine. Added clinical experience in inpatient and ambulatory gynecologic oncology, breast disease, and complicated benign gynecology in the preceptor mode. Pre-treatment evaluation and cancer management, including surgery.

633 Extended Clinical Experience
Fall, Spring, Summer. 6(6-0) Fall: All six(6) campuses. Spring: All six(6) campuses. Summer: All six(6) campuses. P:M: (OGR 608) Based in community hospitals and ambulatory sites, this is a 4 week clinical experience emphasizing interviewing skills, history, physical exam, problem solving and therapy.

637 Core Competencies III
Fall, Spring, Summer. 2(2-0) Fall; same as below. Spring: Flint-Saginaw-GR-Lansing-Kalamazoo-UP. Summer: Flint-Saginaw-GR-Lansing-Kalamazoo-UP. A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Human Medicine; Family Practice; Medicine; Pediatrics and Human Development; Surgery. Administered by College of Human Medicine. R: Open only to graduate-professional students in College of Human Medicine. Core knowledge and skills from an interdisciplinary perspective.

OBSTETRICS, GYNECOLOGY AND REPRODUCTIVE BIOLOGY

Department of Obstetrics, Gynecology and Reproductive Biology

College of Human Medicine

608 Obstetrics and Gynecology Required Clerkship
Fall, Spring, Summer. 6 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. RB: (FMP 602) R: Open only to graduate-professional students in College of Human Medicine. Obstetrics and gynecology in inpatient and ambulatory settings. Clinical experiences, didactic sessions, hospital rounds discussions. Case writeups and presentations.

609 Advanced Obstetrics and Gynecology Clerkship
Fall, Spring, Summer. 4 to 6 credits. RB: (OGR 608) R: Open only to graduate-professional students in College of Human Medicine. Additional exposure to obstetrics or gynecology in the preceptor mode. Participation in ambulatory and inpatient care including surgery. May include maternal and fetal medicine.

610 Perinatology Clerkship
Fall, Spring, Summer. 4 to 6 credits. RB: (OGR 608) R: Open only to graduate-professional students in College of Human Medicine. Additional exposure to high risk obstetrics including prenatal diagnosis and counseling, antepartum evaluation, and care of the high risk patient. Management of the intrapartum high risk patient.

OSTEOPATHIC MANIPULATIVE MEDICINE

Department of Osteopathic Manipulative Medicine
College of Osteopathic Medicine

501 Osteopathic Manipulative Medicine I
Fall. 1(0-2) R: Open only to students in the College of Osteopathic Medicine. Basic osteopathic palpatory skills leading to osteopathic diagnosis and treatment using counterstrain and muscle energy techniques.