

Natural Science—NSC

- 863 Earth Science for Teachers**
Summer. 2 credits. P:NM: Secondary certification in chemistry or physics or earth science or physical science, 3 years teaching experience. R: Approval of college.

Intensive lecture and laboratory study of basic earth sciences from a modern viewpoint.

- 864 Interdisciplinary Seminar in Physical Science**
Summer. 2 credits. P:NM: (NSC 860) R: Approval of college.

Interrelationships of the physical sciences. The role of society in regulation of science to technology transfer.

- 870 Teaching College Science**
Spring. 2 credits. R: One year of graduate study in a biological or physical science. Approval of college.

Philosophies of education. Ethnic, gender, and cultural issues. Designing a laboratory course. Problems of class size. Instructional technologies. Assessment and evaluation.

- 889 Research for Inservice Teachers**
Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 10 credits in all enrollments for this course. R: Open only to inservice K-12 teachers with baccalaureate degrees.

Research in faculty laboratories. Oral and written presentations.

- 899 Master's Thesis Research**
Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 10 credits in all enrollments for this course. R: Open only to master's students in the College of Natural Science. Approval of college.

Master's thesis research.

- 901 Frontiers in Biological Science**
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 36 credits in all enrollments for this course. R: Secondary certification in chemistry or physics or earth science or physical science or biology, 3 years teaching experience. Approval of college.

Weekend workshops with research faculty exploring background and latest findings in their area of research.

- 902 Frontiers in Physical Science**
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 40 credits in all enrollments for this course. R: Open only to students with secondary teacher certification in chemistry or physics or earth science or physical science or biology and 3 years of teaching experience. Approval of college.

Weekend workshops with research faculty exploring background and latest findings in their area of research.

NEUROLOGY AND OPHTHALMOLOGY NOP

Department of Neurology and Ophthalmology College of Human Medicine College of Osteopathic Medicine

- 552 Medical Neuroscience**
Spring. 4(3-2) Interdepartmental with Physiology; Radiology; Human Anatomy. R: Graduate-professional students in colleges 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.

- 590 Special Topics in Clinical Neuroscience**
Fall, Spring, Summer. 1 to 3 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.

- 617 Neurology Clerkship**
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P:NM: (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.

- 620 Directed Studies**
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 24 credits in all enrollments for this course. R: Open only to juniors or seniors in the College of Osteopathic Medicine. Completion of Semester 6 in the graduate-professional program.

Study in general or specialty neurology and ophthalmology.

- 656 Neurology Clerkship**
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.

NEUROSCIENCE NEU

College of Natural Science

- 800 Neuroscience Research Forum**
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.

- 804 Molecular and Developmental Neurobiology**
Fall. 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.

- 806 Advanced Neuroscience Techniques Laboratory**
Summer. 3(0-9) Interdepartmental with Psychology; Pharmacology and Toxicology; Radiology; Physical Medicine and Rehabilitation. P:M: (NEU 804 or concurrently) P:NM: (PHM 827 and ANT 839 and PSY 811) R: Open only to doctoral students in the Neuroscience major.

Methods of neuroscience research and the underlying principles on which these methods are based.

- 811 Advanced Behavioral Neuroscience**
Spring. 3(3-0) Interdepartmental with Psychology. Administered by Department of Psychology. P:NM: (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.

- 827 Physiology and Pharmacology of Excitable Cells**
Fall. 4(4-0) Interdepartmental with Pharmacology and Toxicology; Physiology; Zoology. Administered by Department of Pharmacology and Toxicology. RB: (PSL 431 or PSL 432 or BMB 401 or BMB 461 or ZOL 402)

Function of neurons and muscle at the cellular level: membrane biophysics and potentials, synaptic transmission, sensory nervous system function.

- 890 Independent Study in Neuroscience**
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.

- 999 Doctoral Dissertation Research**
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 99 credits in all enrollments for this course.

Doctoral dissertation research.

NURSING NUR

College of Nursing

- 202 Introduction to Nursing Practice I**
Fall. 3(2-3) R: Open only to students in the College of Nursing except students in PreNursing and Registered Nurses.

Theoretical concepts of nursing necessary for professional practice. Assessment, interpersonal communication, documentation and decision-making.

- 204 Introduction to Nursing Practice II**
Spring. 4(2-6) P:M: (NUR 202 and PHM 350 or concurrently) C: PHM 350 concurrently.
Nursing practice concepts in simulated and clinical practice settings. Development of nursing practice psychomotor skills.
- 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. 2(2-0) 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. 2(2-0) 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.
- 314 Transition to Professional Nursing**
Fall, Spring. 4(3-3) Fall: Given only at various off-campus sites. R: Open only to Registered Nurses in the College of Nursing.
Concepts and practicum for role transition for Registered Nurse seeking degree completion. Assessment, documentation, interpersonal skills and concepts of aging with emphasis on clinical decision making and socialization to professional role.
- 319 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.
- 341 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.
- 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. C: NUR, 409 concurrently.
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 except students in PreNursing.
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.
- 420 Senior Practicum in Nursing**
Fall, Spring. 4(1-9) 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) Summer: Given only in London, England. R: Approval of College.
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.
- 430 Nursing Care of the Critically Ill Client**
Fall. 3(2-3) P:M: (NUR 304 and NUR 306 and NUR 308)
Advanced medical-surgical nursing concepts. Preceptored practicum.
- 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 The Advanced Practice Nurse in Primary Care**
Fall. 2(2-0) R: Open only to master's students in the College of Nursing or approval of college. SA: NUR 501
The role of advanced practice nurses and the concept of primary care. Health care concepts related to the delivery of primary care services. Current health policies, legislative issues, and reimbursement mechanisms relevant to advanced practice nursing.
- 803 Conceptual Frameworks 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 505, NUR 513, NUR 521, NUR 531
Core conceptual and theoretical frameworks for advanced practice nursing in primary care. Basic philosophical tenets used to examine the applicability of those frameworks.
- 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. 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)
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.
- 811 Research and Evaluation for Advanced Practice Nurses**
Spring. 3(3-0) R: Open only to master's students in the College of Nursing or approval of college. SA: NUR 507
Principles of scientific research including principles of research design encountered in clinical literature and evaluation research.
- 813 Applied Nursing Research and Evaluation**
Summer. 4(3-3) P:M: (NUR 811) SA: NUR 509
Use of clinical data for evaluating clinical outcomes in primary care practice. Problems associated with collecting and assembling reliable, usable data.

Nursing–NUR

- 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 500
Collection of comprehensive subjective and objective data for practice as a family advanced practice nurse. Development of advanced health history and physical assessment skills across the lifespan. Interview, communication, and psychomotor skill development.
- 821 Primary Care Management of the Family I**
Summer. 3(3-0) P:M: (NUR 801 and NUR 803 and NUR 807 and NUR 809 and NUR 811 and NUR 820) SA: NUR 522
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 813 and NUR 821) SA: NUR 522
Integration of assessment and applied theory in primary care management of clients across the life span. Collaborative model of primary care practice. Health promotion, health maintenance management, and risk reduction strategies for individuals within the context of family. Single acute condition focus. Problem oriented format for organizing client data.
- 823 Primary Care Management of the Family II**
Fall. 2(2-0) P:M: (NUR 813 and NUR 821) SA: NUR 524
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 524
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/or 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 500
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. 3(3-0) P:M: (NUR 801 and NUR 803 and NUR 807 and NUR 809 and NUR 811 and NUR 830) SA: NUR 532
Principles and issues of health care management for gerontological advanced practice nurses in primary care. Research based biological, pharmacological, and psychosocial factors and theories of aging. Health promotion. Evaluation, coordination, and treatment of infectious states. Care of chronic, stable conditions. Common age changes and social networks. Professional, legal, ethical, and political issues impacting the role of advanced practice nurses in primary care.
- 832 Practicum I: Primary Care for Older Adults**
Fall. 6(0-18) P:M: (NUR 813 and NUR 831)
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 the ethical, legal, and political aspects of the role of advanced practice nurses.
- 833 Primary Care Management of Older Adults II**
Fall. 2(2-0) P:M: (NUR 813 and NUR 831) SA: NUR 534
Principles and issues of health care management for gerontological advanced practice nurses in primary care. Management of the older client with complex health problems and functional losses. Research based biological, pharmacological, and psychosocial theories of aging. Coordination of care involving multiple health care agencies.
- 834 Practicum II: Primary Care for Older Adults**
Spring. 7(0-21) P:M: (NUR 832 and NUR 833) SA: NUR 534
Integration of assessment and applied theory in primary care management of older clients from a variety of ethnic and cultural groups. Health care management of clients with complex health problems and functional losses. Collaborative model of primary care practice. Development and evaluation of long term management plans. Coordinating care involving multiple agencies.
- 841 Contemporary Issues Impacting Advanced Practice Nursing**
Spring. 2(2-0) P:M: (NUR 822 and NUR 823) or (NUR 832 and NUR 833) SA: NUR 503
Economic, political, and organizational issues affecting day to day advanced practice nursing. Organizational systems and approaches directly impacting advanced practice nursing. Transition into the role of advanced practice nurses.
- 843 Human Sexuality and Health**
Spring. 3(3-0) R: Open only to seniors or graduate students.
Physiological and psychosocial components of sexual function. Clinical assessment and interventions for sexual problems common in primary care.
- 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.
Health status of contemporary women. Role of women as consumers and providers of health care. Health care delivery in the U.S.
- 847 Mental Health and Aging**
Spring. 3(3-0) RB: Previous study in the field of normal aging. R: Open only to seniors or graduate students.
Seminar content and structure assists students to:
(1) Understand theories of mental health and aging;
(2) Identify assessment and intervention strategies for mental health promotion in later life;
(3) Identify commonly occurring mental disorders in aging and their treatment. Critique of research and discussion of case studies.
- 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.
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.
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. P:NM: (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.

**OSTEOPATHIC
MANIPULATIVE
MEDICINE**

OMM

**Department of Osteopathic
Manipulative Medicine
College of Osteopathic Medicine**

500 Student Osteopathic Manipulative Medicine Practical Laboratory
Fall, Spring, Summer. 1 credit. A student may earn a maximum of 4 credits in all enrollments for this course. P:M: (OST 501 and OST 502 and OST 504 and OST 505)

Elective course of didactic and clinical sessions which apply osteopathic principles and techniques on patients.

501 Osteopathic Manipulative Medicine I
Fall. 1(0-2) Interdepartmental with Physical Medicine and Rehabilitation. R: Open only to students in the College of Osteopathic Medicine.

Basic osteopathic palpatory skills. Building on their basic palpatory skills, students will learn skills in the osteopathic manipulative treatment areas of counterstrain and muscle energy.

502 Osteopathic Manipulative Medicine - II
Spring. 1(0-2) Interdepartmental with Physical Medicine and Rehabilitation. P:M: (OMM 501) R: Open only to students in the College of Osteopathic Medicine.

Students will continue to learn skills in the osteopathic manipulative treatment area of muscle energy as well as high velocity low amplitude (mobilization with impulse).

503 Osteopathic Manipulative Medicine - III
Summer. 1(0-2) Interdepartmental with Physical Medicine and Rehabilitation. P:M: (OMM 502) R: Open only to students in the College of Osteopathic Medicine.

Students will use their palpatory skills as they learn the principles of functional (indirect) and myofascial release osteopathic manipulative treatment.

504 Osteopathic Manipulative Medicine - IV
Fall. 1(0-2) Interdepartmental with Physical Medicine and Rehabilitation. P:M: (OMM 503) R: Open only to students in the College of Osteopathic Medicine.

Basic cranio-sacral osteopathic manipulative medicine. Exposure to various osteopathic approaches to the extremities.

505 Osteopathic Manipulative Medicine - V
Spring. 1(0-2) Interdepartmental with Physical Medicine and Rehabilitation. P:M: (OMM 504) R: Open only to students in the College of Osteopathic Medicine.

Use of patient complaints/conditions to integrate material presented in OMM 501, 502, 503, 504 while preparing the student for OMM 506.

506 Osteopathic Manipulative Medicine - VI
Summer. 1(0-2) Interdepartmental with Physical Medicine and Rehabilitation. P:M: (OMM 505) R: Open only to students in the College of Osteopathic Medicine.

The osteopathic component in the context of total patient care in disorders of various systems.

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.

**OBSTETRICS,
GYNECOLOGY
AND REPRODUCTIVE
BIOLOGY**

OGR

**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 his course. P:NM: (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. P:NM: (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. P:NM: (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.

611 Reproductive Endocrinology and Infertility Clerkship
Fall, Spring, Summer. 4 to 6 credits. P:NM: (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. P:NM: (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) 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
Spring, Summer. 2 credits. 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 Human Medicine. P:NM: (FMP 602) R: Open only to graduate-professional students in College of Human Medicine.

A weekly seminar addressing core knowledge and skills from an interdisciplinary perspective.

640 Advanced Comprehensive Care
Fall, Spring, Summer. 6 credits. A student may earn a maximum of 18 credits in all enrollments for this course. Interdepartmental with Family Practice; Human Medicine; Medicine; Pediatrics and Human Development. Administered by Department of Family Practice. P:NM: (FMP 608 and PHD 600 and MED 608) R: Open only to graduate-professional students in College of Human Medicine.

Clinical experience in community-oriented primary care. Emphasis on urban and rural underserved populations.