NEU Neurology

NEU 605 PRINCIPLES OF NEUROBIOLOGY. (4)
The objective of this course is to provide graduate students of diverse backgrounds with an introduction and overview of neurobiology. Areas covered will include neuronal and glial cell biology, neurotransmitters, signaling mechanisms, neuroanatomy, and neuronal development. The course is designed to provide a brief overview of each of the areas and introduce students to current research questions. The course will consist of lectures and informal presentations in a ‘Journal Club’ format. The course will be interdisciplinary and will be of interest to graduate students in anatomy, biology, biochemistry, immunology, pharmacy, pharmacology, physiology, psychology and toxicology and to neurology and neurosurgery residents. Prereq: Introductory biochemical course, or equivalent, and/or consent of instructor. (Same as ANA/BCH/PGY/PHA 605.)

NEU 606 MECHANISMS OF NEUROLOGIC DISEASE. (4)
The objective of this course is to provide graduate students of diverse backgrounds with an introduction and overview of current problems and controversies in neurobiology and clinical neurology. The course will cover a variety of illnesses including epilepsy, neurodegenerative diseases, stroke, psychiatric illness, pain, diseases of immune origin, motor dysfunction and inherited disorders. Prereq: ANA/BCH/NEU/PGY/PHA 605 or consent of instructor. (Same as ANA/PHA 606.)

NEU 825 SECOND-YEAR ELECTIVE, NEUROLOGY. (1-4)
With the advice and approval of his or her adviser, the second-year student may choose approved electives offered by the Department of Neurology. The intent is to provide the student an opportunity for exploration and study in an area which supplements and/or complements required course work in the second-year curriculum. Pass-fail only. Prereq: Admission to second-year medical curriculum and approval of adviser.

NEU 850-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS. (1-6)
With the advice and approval of the faculty adviser and the Student Progress and Promotions Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportunity to develop his fund of knowledge and clinical competence. Prereq: Admission to the fourth-year College of Medicine and/or permission of the Student Progress and Promotions Committee.

Approved electives:
NEU 850 ACTING INTERNSHIP IN NEUROLOGY
NEU 852 RESEARCH IN NEUROLOGY
NEU 853 NEUROLOGY CONSULTATION
NEU 854 CLINICAL NEUROPHYSIOLOGY (EEG, EMG, AND EVOKED POTENTIALS)

NFS Nutrition and Food Science

NFS 101 HUMAN NUTRITION AND WELLNESS. (3)
Food composition, digestion, absorption and metabolism as related to selection of nutrients essential for human life, growth, reproduction, lactation, wellness and physical activity. Not open to NFS majors except hospitality management students.

#NFS 201 INTRODUCTION TO THE DIETETICS PROFESSION. (1)
An introduction to careers in dietetics. This course examines specialties in dietetics practice, the process toward certification as a registered dietitian and the code of ethics and standards of practice of the American dietetics Association.

NFS 204 PRINCIPLES OF FOOD PREPARATION. (3)
Basic physical and chemical principles involved in preparation of foods in the Basic Four food groups. Skills, sanitation standards, and economics involved in preparation of foods of quality and maximum nutrient content. Lecture, one hour; laboratory, four hours.

NFS 212 INTRODUCTORY NUTRITION (3)
An elementary study of the principles of nutrition and the application of these principles to providing adequate nutrition to humans. The chemical and physiological approach to nutrition is emphasized. Credit may not be earned for both NFS 101 and 212. Prereq: BIO 104; CHE 106 or 107. May be taken concurrently.

NFS 240 NUTRITION AND PHYSICAL FITNESS. (3)
Course focuses on the interrelationship between nutrition and physical fitness. The intent is to provide the student with the information necessary to formulate an individualized plan for the achievement and maintenance of adequate nutrition and physical fitness. Weight control will be discussed in this content. Team-taught by nutrition faculty and health, physical education and recreation faculty. Lecture, two hours; laboratory, two hours. (Same as HPR 240.)

#NFS 241 FOOD SERVICE SANITATION. (1)
This course covers the principles of food microbiology, important food borne diseases, standards that are enforced by regulatory agencies, and applied measures for the prevention of food borne diseases and other microbiological problems. It leads to certification from the National Restaurant Association. Prereq: Majors in the NFS Department.

*NFS 301 DIETETICS PRACTICE. (2)
An overview of the dietetic profession including education requirements, career roles and responsibilities. Basic skills needed by the dietitian are reviewed with emphasis on communication, media, nutritional care, medical terminology, medical nutrition therapy, and food service management. Prereq: NFS 201.

NFS 304 EXPERIMENTAL FOODS. (3)
Chemical and physical properties of foods and the changes resulting from processing and preparation. Experimental study of variations in ingredients and preparation methods on food quality. Design, execute and report an independent research project. Lecture, one hour; laboratory discussion, one hour; laboratory, three hours per week. Prereq: NFS 204 and CHE 236.

NFS 311 NUTRITIONAL BIOCHEMISTRY. (3)
An introductory study of the biochemical basis of nutrition-the physiochemical properties of nutrients and other essential biochemicals and their role in physiological and metabolic processes. Prereq: CHE 236 or NFS 310; PGY 206 may be taken concurrently or consent of instructor.

*NFS 312 NUTRITION AND WELLNESS IN THE LIFE CYCLE. (3)
A study of the physiological changes occurring in the life cycle with associated nutrient needs. The course focuses on nutrient needs in in-uteri to geriatrics, health promotion, agency and worksite accommodations for community health, prevention education, personal care program development and community interventions. Prereq: NFS 212.

*NFS 314 DIETETICS: COUNSELING AND COMMUNICATION. (3)
Development of competency in collection and interpretation of food/diet related data. Strategies and techniques for promoting change in nutrition behaviors will be included. Lecture, one hour; laboratory, four hours per week. Prereq: NFS 212 and Dietetics major only.

NFS 340 INSTITUTIONAL PURCHASING. (3)
Fundamental principles and purchasing techniques for the selection of food and nonfood items in a food service system. Prereq: ECO 201 or 202.

*NFS 342 QUANTITY FOOD PRODUCTION. (4)
An introduction to the production and service of food in quantity, to include the application of production techniques and controls, menu planning and service. Lecture, two hours; laboratory, 4.5 hours per week. Prereq: NFS 344 and HMT 208, and NFS 241.

§NFS 344 FOOD SERVICE ACCOUNTING. (3)
Exposes the student to all aspects of human resources management in the hospitality and health care industry context. Topics covered include planning, selection, placement, training, disciplining employees, labor relations and compensation. Prereq: Hospitality and Tourism major or Dietetics major.

*NFS 403 Community Nutrition and Wellness. (3)
Study of nutrition education programs on a community level. Experience is provided for presenting nutrition in health clinics, health camps, schools, state institutions, family resource centers, and corporate wellness programs. Attention is paid to special populations, including pregnant women, children, adults, the elderly, and persons with disabilities. Prereq: NFS 312.

NFS 408G SEMINAR IN FOOD AND NUTRITION. (1)
Investigation of recent research in food and nutrition. May be repeated to a maximum of three credits. Nutritional sciences graduate students may not enroll for graduate credit. Prereq: Senior standing or consent of instructor.
NFS 480 DIETETICS PRE-PROFESSIONAL PRACTICE. (1-6)
Pre-professional experiences are designed to allow students to apply knowledge and skills in assessing, planning, implementing, and evaluating nutrition care in various health delivery systems. Student experience will include opportunities to link theory and practice while developing the skills and attitudes essential to practice in the dietetics profession. Placement of experiential settings must have the approval of the appropriate Director of Dietetics in Nutrition and Food Science. A minimum of 60 supervised practice hours will constitute one semester credit hour with prior approval. May be repeated to a maximum of six credits. Prereq: Consent of instructor and senior status in the Dietetics Didactic Program.

NFS 510 ADVANCED NUTRITION. (3)
Application of biochemistry, physiology and nutrition to the understanding of the utilization and function of nutrients in the body as related to the structure, function and metabolic needs of cells/organ systems. Dietetic students must take NFS 511 concurrently with NFS 510. Prereq: NFS 311 or BCH 401G or equivalent.

NFS 511 THERAPEUTIC NUTRITION. (4)
Changes in nutrient metabolism related to biochemical and physiological alterations in disease conditions and development of therapeutic diets. Prereq: NFS 311, NFS 312, and concurrent enrollment in NFS 510.

NFS 513 ADVANCED THERAPEUTIC NUTRITION. (2)
Study of selected topics in advanced therapeutic nutrition, including trauma, enteral and total parenteral nutrition. Content includes case study evaluations, nutritional therapies for disease conditions and current reports/research in the field. Prereq: NFS 511.

NFS 516 MATERNAL AND CHILD NUTRITION. (3)
Food selection for optimal nutrition during pregnancy and lactation and for infant and child development through preadolescence. Cultural, social, and psychological aspects of food selection and dietary patterns, as they relate to mental and physical development. Prereq: NFS 312 or consent of instructor.

NFS 591 SPECIAL PROBLEMS IN FOODS AND NUTRITION. (1-3)
Intensive work on a specific phase of the field. Senior or graduate standing. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

NFS 603 ADVANCED COMMUNITY PROGRAM DEVELOPMENT. (3)
The course focuses on concepts and theories of program development, use of planned goals and objectives such as Healthy Communities-goals and objectives, use of data from national monitoring, survey and surveillance programs, and community assessment to guide decision making for program development. Program marketing, staffing formulas, and grant writing and grant management, cost analysis and cost effectiveness reporting, and formative and summative evaluation of community programs complete the study. Prereq: Admission to graduate program.

#NFS 607 FOOD RELATED BEHAVIORS. (3)
This team-taught course will provide background in topics and methods in food related behaviors to students in Nutritional Sciences and other interested students. The course will follow a problem-based learning approach, and will consist of 3 out of 4 modules in any given year. The four modules will be Social and Cultural Perspectives on Food, Psychological Perspectives on Food and Food Behaviors, Challenges to Community Food Security, and International Issues in Nutrition. (Same as ANT 607, NS 607, BSC 607.)

NFS 610 HOSPITALITY AND DIETETICS ADMINISTRATION AND ASSESSMENT. (3)
This course concentrates on marketing and human resources issues relating to dietetics and hospitality organizations. Marketing problems, and employee-employer relations are approached from management’s point of view. Problems and characteristics specific to service-oriented organizations in general will be examined, as well as those specific to the hospitality and dietetics professions. Prereq: Admission to graduate program.

NFS 620 NUTRITION AND AGING. (2)
Emphasis on current research in nutrition and aging, nutrition needs of the elderly and nutrition-related diseases associated with aging. Prereq: NFS 510 and 511 or equivalent. (Same as NS 620.)

#NFS 630 ADVANCED COMMUNITY NUTRITION. (3)
Study of nutrition surveys and of bases for judging community nutrition. Emphasis is placed upon economic, geographic, social and educational causes of malnutrition. Experience is given in development of nutrition programs. May be repeated to a maximum of six credits. Prereq: NFS 503. (Same as NS 630.)

#NFS 640 HUMAN NUTRITION: ASSESSMENT. (3)
Assessment of dietary, anthropometric and biochemical parameters of nutritional status in health and disease. Lecture, two hours; laboratory, three hours per week. Prereq: NFS 510, NFS 511 or equivalent. (Same as NS 640.)

*NFS 646 INSTITUTION ORGANIZATION AND MANAGEMENT. (3)
This course discusses the impact of information technology on the hospitality industry, describes the role of Information Technology in decision-support and management found in the hospitality industry, and devotes time to learning industry-specific applications as well as the Internet. Prereq: Admission to graduate program.

*NFS 648 INSTITUTION ADMINISTRATION.
NFS 685 MINERAL METABOLISM. (2)
An in-depth review of the function, requirement deficiency and toxicity of mineral elements in nutrition. Emphasis on the interactions between elements and current literature will be made. Prereq: ASC 378 or NFS 510 or equivalent. BCH 502 or equivalent or consent of instructor. (Same as ASC 685.)

*NFS 690 ADVANCED WORK IN DIETETICS. (3)
Evaluation of administrative practices in dietetics. Conceptual frameworks, theories of leadership and administration, research issues, public policy, elements of social architecture for institutional and cross-cultural interactions in management. Examination of practices including the development of attitudes and values for the leadership in institution administration. Discussion will center on strategies to enhance leadership skills, evaluation of issues to promote change and initiate solutions to service barriers. And testing of theoretical concepts in leadership in relates to dietetics administration. Prereq: Admission to graduate program.

*NFS 694 STRATEGIC PLANNING IN HOSPITALITY, LODGING AND TOURISM. (3)
This course is designed to help students’ understanding of strategic planning in relates to hospitality, lodging, and tourism. The concepts utilized to accomplish this objective represent several discipline areas such as: organizational theory, strategic management, and the function of management. Prereq: Admission to graduate program.

#NFS 704 CURRENT TOPICS IN NUTRITIONAL SCIENCES. (1)
This course is designed to develop the student’s independent thinking and critical analysis related to various nutritional sciences issues. These skills will be developed through reading assignments and group discussion related to current topics in nutrition. Prereq: Consent of instructor. (Same as CNU/NS 704.)

*NFS 748 MASTER’S THESIS RESEARCH. (0)
Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed. (Same as NS 748.)

*NFS 768 RESIDENCE CREDIT FOR THE MASTER’S DEGREE. (1-6)
May be repeated to a maximum of 12 hours. (Same as NS 768.)

*NFS 770 SEMINAR IN HOSPITALITY AND DIETETICS ADMINISTRATION. (1)
Investigation of recent research in Hospitality and Dietetics Administration. May be repeated to a maximum of three credits.

*NFS 772 CURRENT TOPICS IN HOSPITALITY AND DIETETICS ADMINISTRATION. (2)
Faculty from different disciplines will provide in-depth coverage of selected topics in Hospitality and Dietetics Administration.

*NFS 781 ADVANCED TRENDS ANALYSIS IN HOSPITALITY AND TOURISM. (3)
The student will investigate the major trends occurring in the hospitality, lodging, and tourism industry and develop analytical skills required to interpret them. Throughout the course, the student should be able to identify trends; their timing; the causal effects they have on organizations; the actual probability of their occurrence; and impact they will have on the organization. Prereq: Admission to graduate program.

#NFS 782 SPECIAL PROBLEMS. (1-6)
Independent advanced work on a special problem in nutritional sciences. Prereq: Consent of graduate advisor. (Same as CNU/NS 782.)

*NFS 784 SPECIAL PROBLEMS IN INSTITUTION MANAGEMENT. (3)
A current events approach to the financial and accounting decision making process in dietetics and hospitality administration. The course will prepare advanced students in dietetics and hospitality administration to analyze and make sound financial management decisions in settings relevant to the dietetics profession and the hospitality industry. Prereq: Admission to graduate program.

#NFS 790 RESEARCH IN NUTRITIONAL SCIENCES. (0-6)
Research work involving original investigation. May be repeated to a maximum of 18 credits. Prereq: Consent of graduate advisor. (Same as CNU/NS 790.)
NRC 301 RESOURCE MANAGEMENT AND CONSERVATION. (3)
An intermediate course in management and conservation of natural resources, with an emphasis on terrestrial resources. A case study approach will be used to study current natural resource issues. Prereq: FOR 100.

NRC 320 DATA COLLECTION TECHNIQUE. (3)
A field-oriented course taught as a three week summer camp at the Robinson Forest. Emphasis is placed on methodologies for data collection necessary to evaluate a variety of ecosystems on forest land, agricultural land and surface mined land. Students will become familiar with sampling instrumentation, collection, preservation, analysis and data interpretation. Lecture, 10 hours; laboratory, 30 hours per week for three weeks. Prereq: BIO 150, 151, 152, 153 or CHE 105.

NRC 350 SOCIAL IMPACT ASSESSMENT. (3)
Applications of social impact assessment methods in context of natural resource conservation and management and environmental policy. Methods to assess economic, demographic, service, fiscal, and social impacts. Prereq: FOR 100, SOC 260, consent of instructor.

NRC 350 GLOBAL POSITIONING SYSTEMS (GPS). (1)
Introduction to the concepts and applications of global positioning systems (GPS) for field mapping. Students will develop skills to collect, calibrate and analyze data collected with GPS equipment. Lectures are supplemented with field exercises in the use of GPS equipment. Lecture, two hours per week for five weeks; laboratory, four hours per week for three weeks. Prereq: Permission of instructor. (Same as LA 859.)

NRC 385 SEMINAR IN NATURAL RESOURCE CONSERVATION AND MANAGEMENT. (1)
Reports and discussions of selected topics in natural resource conservation and management. Students will select topics for independent investigation and class presentations. Prereq: NRC 301.

NRC 395 INDEPENDENT STUDY IN NATURAL RESOURCES. (1-6)
Study and independent work on selected problems related to conservation and management of natural resources. May be repeated to a maximum of six credits. Prereq: Consent of appropriate instructor.

NRC 399 EXPERIENTIAL EDUCATION IN NATURAL RESOURCES. (1-6)
A field-based learning experience in natural resources under the supervision of a faculty member. May be repeated to a maximum of six credits. Prereq: Consent of instructor and department chair, and completion of a departmental learning contract.

NRC 420G TAXONOMY OF VASCULAR PLANTS. (4)
A survey of the identifying characteristics and evolutionary relationships among groups of vascular plants, concentrating on important families in the temperate flora of eastern North America. Students will gain experience in species identification and in the use of important tools and references of field botany. Lecture, three hours; laboratory, three hours; plus two Saturday field trips. Prereq: BIO 150, 151, 152 and 153; or one course in introductory botany; or consent of instructor.

NRC 450G BIOGEOCHEMISTRY. (3)
A course emphasizing the physical, chemical, and biochemical make-up of soil/water systems and the information required to predict chemical fate in the environment. Emphasis is placed on the relationships describing mineral solubility, sorption and exchange reactions, redox reactions, volatility, and biochemical cycling. Prereq: CHE 105, 107, 115; two semesters of college biology. (Same as PLS 450G.)

NRC 455G WETLAND DELINEATION. (3)
Basic concepts of natural wetland ecosystems, their importance, functions, and major features used for their identification and classification. Application of basic hydrology, hydrophytic vegetation and hydric soil indicators for identification of jurisdictional wetlands utilizing documentation and analysis of field collected data. Three laboratory exercises and four short field trips required. Prereq: PLS 366 or consent of instructor. (Same as PLS 455G.)

NRC 456G CONSTRUCTED WETLANDS. (3)
Important aspects of the functions of natural and constructed wetlands as water purifiers. Principles and mechanisms of the purification process, design, construction, operation and management criteria for efficient usage. Case studies and design problems of constructed wetlands on mining, agricultural, industrial and municipal wastewater treatment applications. Two all day field trips are required. Prereq: PLS 366 or consent of instructor. (Same as PLS 456G.)

NRC 471 SENIOR PROBLEM IN NATURAL RESOURCES. (3)
This course is designed to provide students with the opportunity to apply the skills and information acquired in previous courses to a real world natural resource problem. The class will focus on a single current natural resource conflict in Kentucky and will research the issue in depth, using a variety of techniques, including library research, interviews, and data collection and analysis. In addition to research and problem-solving skills, written and oral skills will be emphasized. Lecture, one hour; laboratory, four hours per week. Prereq: NRC 301, NRC 385, and senior standing.

NRC 477G LAND TREATMENT OF WASTE. (3)
Resource management with emphasis on principles and methods of soil application of wastes (agricultural, industrial, and municipal). Topics include chemical and biological systems; soil and plant management; development, monitoring, and record keeping. Prereq: PLS 366. (Same as PLS 477G.)

NRC 555 GEOGRAPHIC INFORMATION SYSTEMS AND LANDSCAPE ANALYSIS. (3)
An introduction to the concepts and methods of compilation, management, analysis, and display of spatially-referenced data. Lectures will be complemented with computer based laboratory exercises. Lecture, two hours; laboratory, four hours per week. Prereq: Fourth/fifth year LA major, junior/senior, or graduate student, CS 101, FOR 200 or GEO 415, or permission of instructor. (Same as LA 855/SOC 555.)

NRC 556 ADVANCED GEOGRAPHIC INFORMATION SYSTEMS (GIS) AND LANDSCAPE ANALYSIS. (3)
Advance concepts in data base analysis, model development, and ancillary functions in geographic information systems. Lecture, two hours; laboratory, four hours per week. Prereq: LA 855/SOC 555/NRC 555 and either STA 291 or STA 570. (Same as LA 956/SOC 556.)
**NS Nutritional Sciences**

**#NS 601 MACRONUTRIENT METABOLISM.** (4)
Emphasis will be on macronutrient assimilation and utilization and will include lectures, discussions and student presentations related to energy balance and protein-lipid-carbohydrate metabolism and its relationship to health maintenance. This course integrates biochemistry, physiology and nutrition with regards to macronutrient metabolism. Prereq: NFS 311 and PGY 206 or equivalent or consent of instructor. (Same as CNU 601.)

**#NS 602 MICRONUTRIENT METABOLISM.** (4)
Detailed study of the properties, metabolism, biochemical and physiological functions and interactions of vitamins and minerals, and their relationships to deficiency symptoms and toxicity. Prereq: NFS 510 and 511 or equivalent. (Same as NS 640.)

**#NS 604 LIPID METABOLISM.** (3)
Emphasis on factors influencing the absorption of fats and fatty acids, distribution and incorporation of fatty acids into body tissues, the biosynthesis of fat and catabolism of fatty acids, as well as cholesterol, bioactive eicosanoid production and the involvement of fats in the disease process. Lecture and problem-based learning approach with incorporation of student presentations, three hours per week. Prereq: NS/CNU 601, BCH 401G, and PGY 412G or consent of instructor. (Same as CNU 604.)

**#NS 605 WELLNESS AND SPORTS NUTRITION.** (3)
Emphasis is directed toward nutrition as applied to prevention of disease through lifestyle management and the application of nutrition in exercise and sport. Targeted focus areas are: body composition and energy expenditure, the metabolic basis of weight management, nutrient needs throughout the lifecycle, the metabolic changes associated with obesity, behavioral management of obesity, nutrient metabolism and exercise, water and electrolyte balance during exercise, nutritional ergogenic aids, nutrition-strength and performance enhancement. Prereq: PGY 412G, and BCH 401G or equivalent or consent of instructor. (Same as CNU/PT 605.)

**#NS 606 MOLECULAR BIOLOGY APPLICATIONS IN NUTRITION.** (2)
Focus will be on the use of the most recently developed techniques and model systems in molecular biology for studying nutrient regulation of gene expression. Examples include current problems in nutrition such as models for engineering plants containing more desirable nutrient sources (fats); for studying effects of various nutrients in transgenic mice on tumor suppressor genes and oncogene expression, that are important in cancer prevention; and for studying nutrient effects on genes that modulate obesity. Prereq: BCH 501 and 502 or equivalent; or BCH 401G and consent of instructor. (Same as CNU/PT 606.)

**#NS 607 FOOD RELATED BEHAVIORS.** (3)
This team-taught course will provide background in topics and methods in food related behaviors to students in Nutritional Sciences and other interested students. The course will follow a problem-based learning approach, and will consist of 3 out of 4 modules in any given year. The four modules will be Social and Cultural Perspectives on Food, Psychological Perspectives on Food and Food Behaviors, Challenges to Community Food Security, and International Issues in Nutrition. (Same as ANT 607, NFS 607, BSC 607.)

**#NS 608 NUTRITIONAL IMMUNOLOGY.** (3)
Theories and mechanisms of immunity will be introduced. The effects of nutrition on immunity will be discussed from experimental and clinical perspectives. A lecture and problem-based learning approach with incorporation of student presentations, three hours per week. Prereq: PGY 412G and CNU 601, or consent of instructor. (Same as CNU 608.)

**#NS 609 ETHICS IN CLINICAL SCIENCES RESEARCH.** (1)
Students will examine ethical issues in biomedical research using a case-study approach. Representative issues addressed may include data selection and retention, plagiarism, scientific review of grants and manuscripts, scientific misconduct, and informed consent. Prereq: Graduate student status. (Same as CNU 609.)

**#NS 620 NUTRITION AND AGING.** (2)
Emphasis on current research in nutrition and aging, nutrient needs of the elderly and nutrition-related diseases associated with aging. Prereq: NFS 510 and 511 or equivalent. (Same as NFS 620.)

**#NS 630 ADVANCED COMMUNITY NUTRITION.** (3)
Study of nutrition surveys and of bases for judging community nutrition. Emphasis is placed upon economic, geographic, social and educational causes of malnutrition. Experience is given in development of nutrition programs. May be repeated to a maximum of six credits. Prereq: NFS 503. (Same as NFS 630.)

**#NS 640 HUMAN NUTRITION: ASSESSMENT.** (3)
Assessment of dietary, anthropometric and biochemical parameters of nutritional status in health and disease. Lecture, two hours; laboratory, three hours per week. Prereq: NFS 510, NFS 511 or equivalent. (Same as NFS 640.)

**#NS 651 TOPICS IN NUTRITIONAL SCIENCES I.** (2)
Faculty from different disciplines will provide in-depth coverage of selected topics in nutritional sciences as related to health and disease, e.g. nutrition and gastrointestinal diseases, diabetes, cancer, cardiovascular disease. Prereq or concur: Six credit hours from ASC 681, 683, 687, ASC/NFS 685, NFS 610, CNU 601 or consent of instructor.

**#NS 652 TOPICS IN NUTRITIONAL SCIENCES II.** (2)
Faculty from different disciplines will provide in-depth coverage of selected topics in nutritional sciences as related to health and biological functions (e.g. nutrition and exercise, stress, and environmental interactions). Prereq or concur: Six credit hours from ASC 681, 683, 687, ASC/NFS 685, NFS 610, CNU 601 or consent of instructor.

**#NS 680 LABORATORY METHODS IN NUTRITIONAL SCIENCES.** (4)
The use of laboratory techniques and instrumentation in the solution of fundamental problems of nutrition. Lecture, one hour; laboratory, six hours. (Same as ASC 680.)

**#NS 701 NUTRITION AND CHRONIC DISEASES.** (4)
Selected topics in nutritional sciences as related to health and chronic diseases, e.g., gastrointestinal disease, cancer, AIDS, diabetes, cardiovascular disease, obesity, including drug-nutrient interactions. Prereq or concur: NS/CNU 601, NS/ASC 602. (Same as CNU 701.)

**#NS 702 CLINICAL/WELLNESS NUTRITION PROBLEM-BASED CASE STUDIES.** (1-3)
A problem-based learning approach to case studies is integrated with a traditional didactic approach to offer options in therapeutic nutrition, and/or health promotion. Efforts are directed toward patient, worksite and laboratory data interpretation as well as patient education. Students are directed to develop independent critical thinking related to case presentations including case studies regarding rotations through various medical or health services e.g. surgery, pediatrics, nutrition support and health promotion. Prereq: NS/CNU 601, NS/ASC 602, NS/CNU 701, NS/NFS 610 and graduate status or consent of instructor. (Same as CNU 702.)

**#NS 704 CURRENT TOPICS IN NUTRITIONAL SCIENCES.** (1)
This course is designed to develop the student’s independent thinking and critical analysis related to various nutritional sciences issues. These skills will be developed through reading assignments and group discussion related to current topics in nutrition. Prereq: Consent of instructor. (Same as CNU/NFS 704.)

**#NS 748 MASTER’S THESIS RESEARCH.** (0)
Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed. (Same as NFS 748.)

**#NS 749 DISSERTATION RESEARCH.** (0)
Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters of 769 residence credit following the successful completion of the qualifying exams.

**#NS 768 RESIDENCE CREDIT FOR THE MASTER’S DEGREE.** (1-6)
May be repeated to a maximum of 12 hours. (Same as NFS 768.)

**#NS 769 RESIDENCE CREDIT FOR THE DOCTOR’S DEGREE.** (0-12)
May be repeated indefinitely.

**#NS 771 GRADUATE SEMINAR IN NUTRITIONAL SCIENCES.** (0-1)
Reports and discussion on recent research and current literature in nutritional sciences. May be repeated to a maximum of eight credits. Prereq: Graduate standing and consent of instructor for non-NS students enrolled for one credit.

**#NS 782 SPECIAL PROBLEMS.** (1-6)
Independent advanced work on a special problem in nutritional sciences. Prereq: Consent of graduate advisor. (Same as CNU/NFS 782.)

**#NS 790 RESEARCH IN NUTRITIONAL SCIENCES.** (0-6)
Research work involving original investigation. May be repeated to a maximum of 18 credits. Prereq: Consent of graduate advisor. (Same as CNU/NFS 790.)
NUR 440 WOMEN AND MENTAL HEALTH. (3)
An examination of historical and current factors affecting women’s mental health across the life span. Emphasis is placed on identification of hidden biases; treatment and social control issues; and policy implications. Selected mental health problems are examined in-depth. (Same as HSE 440.)

NUR 510 OLDER WOMEN AND THEIR HEALTH. (3)
This course is designed to increase the awareness and understanding of the relationships among gender, health status and the aging process among older women. Such issues as changing social and cultural mores, public policies and utilization of health care resources are discussed as they impact women. Prereq: Upper division or graduate standing. (Same as HSE 510.)

NUR 512 COMPLEMENTARY/ALTERNATIVE APPROACHES TO HEALTH CARE. (3)
Using a holistic approach to wellness, this course is an overview of alternative ways of conceptualizing health and illness. Non-traditional methods of managing illness and promoting health and well-being will be discussed. Practitioners of these methods will participate in discussions and involve students in experiencing some of these practices. Alternative methods that reflect use in a number of other cultures will be explored as complementary to the traditional western style of medicine which is used almost exclusively in this country. Prereq: Junior level. Consent of instructor for students outside the health professions.

NUR 520 SPECIAL TOPICS IN NURSING (Subtitle required). (2-4)
Exploration of selected topics or issues in nursing. Directed by a faculty member with expertise in the topic under study. Lecture, 0-4 hours; laboratory, 0-12 hours per week. May be repeated with different topics to a maximum of nine credits. Prereq: Variable, specified when topic identified.

NUR 600 ADVANCED NURSING PRACTICE: ROLES AND ISSUES. (3)
This course provides an opportunity for students to explore theory, concepts, and research related to advanced practice roles and functions; and examine historical and contemporary problems and issues from local, state, regional and national perspectives. Prereq: Admission to graduate program in nursing or consent of instructor.

#NUR 601 THEORETICAL BASIS FOR ADVANCED PRACTICE NURSING. (2)
Selected concepts and theories useful for guiding advanced practice nursing are examined. The concepts and theories are drawn from nursing science as well as from other disciplines. All are discussed within the context of the nature of nursing knowledge and the expanding scientific basis for advanced practice nursing. Prereq: Enrollment in graduate program in Nursing or consent of instructor.

#NUR 602 RESEARCH METHODS IN ADVANCED PRACTICE NURSING. (3)
This course provides the knowledge and skills essential for using research to support clinical and organizational decision making. The strengths and limitations of various research designs and methods are reviewed for their utility in answering clinical questions, evaluating care delivery and patient outcomes, and making clinical decisions. Prereq: Graduate level statistics (pre- or corequisite). Enrollment in Graduate program in Nursing or consent of instructor.

#NUR 603 CLINICAL REASONING IN ADVANCED PRACTICE NURSING. (3)
The intent of this course is for students to enhance their abilities to think logically, use clinical evidence and research findings in making clinical decisions. Concepts and principles from the biopsychosocial sciences, clinical epidemiology, informatics, and ethics will be used in developing ways for defining problems; managing the health care of individuals, groups, and populations; and measuring and monitoring the outcomes of care. Strategies for organizing, managing, and using clinical data in decision making will be addressed. Prereq: NUR 601 and NUR 602. Enrollment in graduate program in Nursing or consent of instructor.

#NUR 604 LEADERSHIP IN ADVANCED PRACTICE NURSING. (3)
This course focuses on leadership and management of health care delivery by advanced practice nurses. Emphasis will be placed on leading change related to improving health outcomes, especially in relation to those areas targeted by national health care objectives. Students will critically analyze theory and research from nursing and related sciences to understand social, cultural, economic, and political issues in the health care environment. Legislative and regulatory requirements related to the practice of advanced nursing will be appraised, with an emphasis on understanding how to promote the health of the public within appropriate legal boundaries and within the context of interdisciplinary practice. Students will use selected frameworks for evaluating organizational and public policies affecting health. Prereq: NUR 603, enrollment in graduate program in Nursing or consent of instructor.

#NUR 605 EVIDENCE-BASED NURSING PRACTICE. (3)
This course provides the opportunity to apply knowledge of the research process, research utilization and program evaluation models, or evidence-based practice to address a clinical program. Under the guidance of a faculty advisor, students are expected to work with the advisor to design and implement a project to address a clinical problem. A written scholarly report reflecting the process and outcomes of the activity is the final product. Prereq: NUR 602, enrollment in graduate program in Nursing or consent of instructor. Co-req: NUR 708, NUR 714, NUR 724, NUR 727, or NUR 734 (depending on student’s specialty area.)

NUR 610 CONCEPTS AND THEORIES IN NURSING. (2)
Study of formulation of concepts and theories in nursing and the testing of existing theories in clinical practice. Prereq: Admission to graduate program in nursing.

NUR 612 NURSING RESEARCH METHODS. (3)
Provides for the development of skills needed to understand and evaluate nursing research, to identify problems in nursing which may be studied, and to formulate a study proposal. Prereq: Admission to graduate program in nursing.

NUR 613 RESEARCH APPLICATIONS IN NURSING. (3)
This course provides an opportunity for application of selected aspects of the research process to a clinical nursing problem. Students work individually or in small groups. The specific nature of the research effort is negotiated with the faculty advisor and is under the direction of that advisor. A written scholarly report is the final product. May be repeated to a maximum of six credits. Prereq: NUR 612.

NUR 614 PRACTICUM IN CLINICAL NURSING I. (4)
Conceptual frameworks, theories, and research findings are applied in clinical practice. The testing of theoretical concepts related to nursing management of clients in an area of clinical concentration is emphasized. Collaborative practice with other disciplines is an expectation. Prereq: Kentucky licensure and relevant post-baccalaureate experience, NUR 610; prereq or coreq: NUR 700, 710, 715 or 720.)

NUR 615 PRACTICUM IN CLINICAL NURSING II. (5)
Advanced knowledge, research, leadership, and clinical skills are integrated in managing nursing care with individuals, families, and groups or communities. Evaluation strategies to promote change and resolve problems in nursing care delivery are analyzed. Multidisciplinary strategies to promote and resolve problems in health care delivery are emphasized. Prereq: NUR 614, 701, 711, 716, 717 or 720.

NUR 620 PROBLEMS IN CLINICAL NURSING. (2-6)
This course provides opportunity for the study of nursing problems in particular clinical areas and for the further development of techniques of nursing intervention. Ratio of discussion/laboratory hours will vary according to designated clinical problems. May be repeated to a maximum of 12 credits. Prereq: Admission in graduate program in nursing or consent of instructor.

NUR 624 PEDIATRIC HEALTH SCREENING AND HEALTH PROMOTION. (2)
Using a developmental approach the focus will be on appropriate biopsychosocial health screening for children birth through adolescence and their families. Health promotion education is also a focus of the course. Emphasis is placed on differentiating normal findings from those requiring follow-up or referral. Prereq: Enrollment in the PNP component of the MSN program or consent of instructor.

NUR 628 POPULATION FOCUSED PRACTICE IN THE COMMUNITY. (2)
An examination of historical and contemporary public health problems from a population focused approach. Analysis of concepts, theories from public health and community health nursing will be emphasized. Prereq: Admission to graduate program in nursing or consent of instructor.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 620</td>
<td>EPIEMIOLOGICAL PRINCIPLES APPLIED TO HEALTH CARE AND NURSING PRACTICE</td>
<td>(3)</td>
<td>This course reviews the basics concepts and methods of epidemiology applied to population focused health care and nursing practice. Emphasis is placed on the use of epidemiologic reasoning in deriving inferences about the etiology of health outcomes from population data, and in guiding the design of health service programs. Prereq: STA 570 or equivalent.</td>
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<tr>
<td>NUR 630</td>
<td>ADVANCED HEALTH ASSESSMENT</td>
<td>(2)</td>
<td>This advanced health assessment course offers essential assessment and skill development opportunities for advanced practice nursing. It includes intensive work on the principles and techniques for performing a comprehensive health assessment in the context of developmental, physiological, psychological, and environmental parameters. Individual, family, and community assessment models are analyzed for use with diverse populations. Clinical emphasis will be placed on comprehensive health assessment of individual clients consistent with advanced nursing practice. Prereq: Enrollment in graduate program in Nursing and consent of instructor.</td>
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<tr>
<td>NUR 631</td>
<td>APPLICATIONS OF ADVANCED HEALTH ASSESSMENT</td>
<td>(2)</td>
<td>This advanced health assessment course is the second of two courses that offers essential assessment and skill development opportunities for advanced practice nursing. It includes intensive work on the principles and techniques for performing a comprehensive health assessment in the context of developmental, physiological, psychological, and environmental parameters. Individual, family, and community assessment models are analyzed for use with diverse populations. Emphasis is to differentiate normal and abnormal health findings for diverse individuals, families, and communities. Prereq: NUR 630, enrollment in graduate program in Nursing or consent of instructor.</td>
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<tr>
<td>NUR 632</td>
<td>COMPREHENSIVE PATIENT MANAGEMENT I.</td>
<td>(2)</td>
<td>This clinical course places an emphasis on the role of the advanced practice nurse as a member of the health care team across a variety of settings. The clinical experience focuses on comprehensive patient assessment, diagnosis and management of health problems for individuals and their families. Prereq: NUR 631, and NUR 706 or NUR 725 (depending on student’s specialty area), enrollment in graduate program in Nursing or consent of instructor.</td>
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<tr>
<td>NUR 633</td>
<td>COMPREHENSIVE PATIENT MANAGEMENT II.</td>
<td>(2)</td>
<td>This clinical experience focuses on synthesis of theoretical, scientific, and clinical knowledge as well as practice-based skills in the diagnosis and management of existing and potential health problems based on appropriate standards of care. Emphasis will be placed on the collaborative and leadership roles of the advanced practice nurse in health care delivery. Prereq: NUR 632, enrollment in the graduate program in Nursing or consent of instructor. Coreq: NUR 708 or NUR 727 (depending on student’s specialty area).</td>
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<tr>
<td>NUR 650</td>
<td>ADVANCED PHYSICAL AND HEALTH ASSESSMENT</td>
<td>(2-4)</td>
<td>A variable credit lecture and laboratory course on the principles and techniques of obtaining a comprehensive health assessment in the context of psychological and physiological developmental parameters. Emphasis is on differentiating between normal and abnormal findings in children, young and middle adults, and the elderly. The pathophysiology of each body system is included for greater distinction between the normal and abnormal. Lecture, one to two hours; laboratory, 3 to 12 hours per week. Prereq: Admission to graduate program in nursing or consent of instructor.</td>
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<tr>
<td>NUR 651</td>
<td>DIAGNOSTIC LABORATORY PROCEDURES.</td>
<td>(2)</td>
<td>This course provides an overview of common laboratory procedures utilized in the primary care setting. Theory and practice in the principles and techniques of performing selected procedures. Lecture, one hour; laboratory, three hours per week. Prereq: Admission to graduate program in nursing or consent of instructor.</td>
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<tr>
<td>NUR 652</td>
<td>PHARMACOLOGIC APPLICATIONS IN PRIMARY CARE</td>
<td>(3)</td>
<td>This course is designed to prepare nurse practitioners, nurse midwives, and other health professionals for prescribing drugs within their scope of practice. Basic pharmacologic principles and the pharmacologic actions of the major drug classes will be discussed in relation to physiologic systems with emphasis on the application of these agents to primary care, nurse midwifery practice, and other health professions. Prereq: Graduate level pathophysiology course and consent of instructor.</td>
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<tr>
<td>NUR 653</td>
<td>PATHOPHYSIOLOGY.</td>
<td>(3)</td>
<td>This course is designed to present an orientation to disease as disordered physiology. It is intended to enable the student to understand how and why the symptoms and signs of various physical and mental conditions appear. In approaching disease as disordered physiology, the mechanism(s) of production of the symptoms and signs of different disease syndromes are analyzed. Student’s needs to understand the mechanism(s) underlying the disease and its clinical manifestations so that rational therapies can be devised. Thus, appropriate screening and diagnostic laboratory evaluative methods will also be included. Prereq: Undergraduate physiology and enrollment in the graduate program in Nursing or consent of instructor.</td>
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<tr>
<td>NUR 654</td>
<td>COMMON HEALTH PROBLEMS OF YOUNG, MIDDLE, AND OLDER ADULTS I.</td>
<td>(3)</td>
<td>Focus is on the primary care nurse practitioner’s role in the recognition and management of selected acute, chronic, and emergent health problems related to the basic human needs of the young, middle and older adult commonly encountered in ambulatory care, home health, and nursing home facilities. Problems related to elimination, eye, skin, sight, psychosocial needs, endocrine, cardiovascular, respiratory, and female reproductive systems are presented. Emphasis is on the role of the nurse practitioner as a collaborative member of the health care team. Prereq: NUR 650.</td>
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<td>NUR 655</td>
<td>COMMON HEALTH PROBLEMS OF YOUNG, MIDDLE, AND OLDER ADULTS II.</td>
<td>(3)</td>
<td>This is a sequential course to NUR 654 in which there is discussion of additional selected acute, chronic, and emergent health problems related to the basic human needs of adults of all ages managed by the nurse practitioner in ambulatory care settings, home health agencies and nursing home facilities. Emphasis is on analysis of the role of the nurse practitioner as a collaborative member of the health care team. Problems related to minor emergencies, abuse, family planning, pregnancy, hemolytic, gastrointestinal, male genitourinary, and neurologic systems are discussed. Prereq: NUR 650.</td>
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<td>NUR 656</td>
<td>HEALTH PROBLEMS OF THE PEDIATRIC CLIENT.</td>
<td>(2)</td>
<td>Focus is on the primary care nurse practitioner’s role in the recognition and management of selected acute, chronic and emergent health problems related to the basic human needs of the pediatric client from birth through adolescence commonly encountered in ambulatory care, home health, and nursing home facilities. Emphasis is on the role of the nurse practitioner as a collaborative member of the health team and as a supportive resource for parents. Prereq: NUR 650.</td>
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<tr>
<td>NUR 657</td>
<td>HEALTH ISSUES OF THE CHILD AND ADOLESCENT CLIENT.</td>
<td>(2)</td>
<td>The focus is on helping the primary pediatric practitioner assess and manage acute, chronic, developmental, and behavioral health problems of the child and adolescent in primary care. Emphasis is on identification of appropriate assessment and management of problems in collaboration with other health care providers and the use of the nurse practitioner as a resource for families. Prereq: NUR 656.</td>
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<tr>
<td>NUR 658</td>
<td>RISKY BEHAVIORS AND HEALTH.</td>
<td>(3)</td>
<td>This course examines the epidemiological, psychological, and theoretical perspectives of risk taking behavior and its health consequences across the lifespan. Fundamental risk concepts about individual and group risk taking behaviors, and models and practices that reduce risky behaviors are discussed. Selected topics include stress, tobacco, drug, alcohol, and medication abuse, unplanned pregnancy, sexually transmitted diseases, eating disorders, occupational and sports activities, and violence. Prereq: Graduate standing.</td>
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<tr>
<td>NUR 662</td>
<td>CLINICAL NURSING PRACTICE IN EXPANDED ROLES I.</td>
<td>(1-4)</td>
<td>Clinical practicum focuses on assessment of health status of individuals, families, and/ or aggregates; identification of needs and planning for care with emphasis on prevention and health maintenance. Laboratory, three to 12 hours per week. May be repeated to a maximum of four credits. Prereq: Kentucky licensure and relevant post-baccalaureate experience; NUR 654; prereq or coreq: NUR 740 or NUR 741.</td>
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<tr>
<td>NUR 663</td>
<td>MANAGEMENT OF CLINICAL NURSING PRACTICE I.</td>
<td>(4)</td>
<td>Clinical practicum with a management preceptor for the purposes of assessing health care needs of aggregates, designing programs to meet the identified needs, and planning for change. Prereq: Kentucky licensure and relevant post-baccalaureate experience; NUR 730.</td>
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<tr>
<td>NUR 668</td>
<td>PSYCHOTHERAPEUICS FOR ADVANCED NURSING PRACTICE.</td>
<td>(3)</td>
<td>This course provides advanced background in psychotherapies for psychiatric/mental health nurse practitioners. Psychiatric disorders and their pharmacotherapy are addressed with emphasis on indications for use, mechanisms of action, side effects, pharmacokinetics and nursing management problems. Prereq: Graduate standing in nursing or permission of instructor. (Same as PHR 668.)</td>
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NUR 672 CLINICAL NURSING PRACTICE IN EXPANDED ROLES II. (3-4)
Second clinical practicum which focuses on continued assessment of health needs of individuals, families, and/or aggregates which emphasizes planning, implementation, monitoring, and evaluation of nursing services. Laboratory, nine to 12 hours per week. Prereq or coreq: NUR 655; 662; 742 or 744.

NUR 673 MANAGEMENT OF CLINICAL NURSING PRACTICE II. (4)
In this clinical practicum students will be assigned to a preceptor for the purpose of applying the theoretical content from NUR 731. Students will focus on implementation and monitoring of nursing services and evaluation of the effectiveness of programs in meeting the needs of the population served through the health care agency. Laboratory, 12 hours per week. Prereq: NUR 663; prereq or coreq: NUR 731.

NUR 676 WOMEN’S HEALTH: A PUBLIC HEALTH PERSPECTIVE. (3)
A seminar for analysis of women’s health issues using a global, public health approach incorporating theory, research, and health policy. Topics such as the epidemiology of the leading causes of morbidity and mortality among women, gender roles and health, reproductive health, women’s mental health, and women in the health care system will be examined. Students will select a topic from a wide range of women’s health issues for in-depth exploration. Prereq: Graduate or professional standing and consent of instructor. (Same as PM 676.)

NUR 682 CLINICAL NURSING PRACTICE IN EXPANDED ROLES III. (3-8)
Individually arranged in-depth clinical practicum focusing on the development of leadership and clinical management skills and the application, refining, and synthesis of knowledge and skills developed in didactic and clinical courses. May be repeated to a maximum of eight credits. Laboratory, nine to 24 hours per week. Prereq or coreq: NUR 672; coreq: NUR 743, 744, or 745.

NUR 683 MANAGEMENT OF CLINICAL NURSING PRACTICE III. (3-8)
Individually arranged in-depth study and practice in executive level nursing management in a health setting for the purpose of synthesizing the knowledge and skills developed through didactic and clinical experiences. Laboratory, nine to 24 hours per week. Prereq: NUR 673.

NUR 700 BEHAVIORAL RESPONSES TO HEALTH PROBLEMS. (2)
This course focuses on the concepts and theories that assist in understanding behavioral responses to health problems. Although the focus will be on adults, these concepts and theories may be applied across age groups or clinically defined populations. Of specific interest are human responses influenced by cognitive processing of information related to health, health problems, and health service utilization. Approaches to nursing diagnosis and intervention to support and/or modify these responses to health problems are emphasized within the context of clinical decision-making. Prereq: Admission to graduate program in nursing or consent of instructor.

NUR 701 BIOLOGICAL RESPONSES TO HEALTH PROBLEMS. (2)
This course focuses on concepts and theories that assist in the understanding of biological responses of adults to health problems. The course draws on previous knowledge of biology and microbiology and the ability of participants to integrate behavior and biological phenomena. Approaches to nursing diagnosis and intervention to support and/or modify these responses to health problems are emphasized within the context of clinical decision-making. Prereq: NUR 700.

NUR 702 BIOLOGICAL PHENOMENA IN ACUTE ILLNESS. (3)
This course focuses on the biological phenomena of concern to nursing acutely ill patients. Phenomena common to the management of acutely ill, high intensity adults and elders are addressed by students pursuing advanced practice in high intensity environments. Research generated from biological and nursing sciences is applied to the diagnosis, decision analysis, and intervention for acutely ill adults and elders. Prereq or coreq: PGY 41G or equivalent.

NUR 703 BIOLOGICAL AND BEHAVIORAL PHENOMENA IN CHRONIC ILLNESS. (2)
This course focuses on the biological and behavioral phenomena of concern to nursing chronically ill patients. Phenomena common to the management of chronically ill adults and elders are addressed by students pursuing advanced practice in high acuity environments. Research generated from biological, behavioral and nursing sciences is applied to the diagnosis, decision analysis, and intervention for chronically ill adults and elders. Prereq: NUR 702.

NUR 704 ACUTE AND CHRONIC ILLNESS AND NURSING THERAPEUTICS I. (3)
This course deals with advanced practice nursing care for adults with acute and chronic illnesses and their families. Advanced practice nursing care requires understanding the conditions that may influence patient/family quality of health, or wellness, as well as the consequences of disease and its treatment. The concept of transitions is introduced as central to advanced nursing practice. The conditions that influence illness perception and patient/family responses to illnesses, adherence to therapeutic regimens, and lifestyle changes are examined. Nursing therapeutics are explored for their effectiveness in positively influencing patient/family outcomes. Prereq: NUR 602, NUR 630, enrollment in graduate program in Nursing or consent of instructor. Pre- or coreq: NUR 603, NUR 631, NUR 652, NUR 653.

NUR 705 ACUTE AND CHRONIC ILLNESS AND NURSING THERAPEUTICS II. (6)
This course deals with advanced practice nursing care for adults with acute and chronic illnesses and their families. Emphasis on understanding the conditions influencing patient/family quality of health and the consequences of disease and its treatment continues. Symptoms interpretation and management are explored. Nursing therapeutics are examined for their effectiveness in managing symptoms and enhancing quality of health. The clinical experience provides opportunities to analyze selected roles in APN by working with other healthcare professionals. Under the guidance of a faculty advisor and preceptor, the student will assist patients and their families in promoting health across a spectrum of health care transitions. Prereq: NUR 704, enrollment in graduate program in Nursing or consent of instructor. Pre- or coreq: NUR 604.

NUR 706 ADVANCED PRACTICE NURSING CARE OF ACutely ILL ADULTS. (3)
This course focuses on the role of the acute care nurse practitioner in assessing, diagnosing, and managing acute episodes in the chronically ill adult. Emphasis is placed on the use of research and theories from biological, behavioral, and advanced practice nursing to facilitate the comprehensive care of chronically ill patients and their families. Prereq: NUR 601, NUR 630, NUR 653. Coreq: NUR 603, NUR 631, NUR 652.

NUR 707 ADVANCED PRACTICE NURSING CARE OF CRITICALLY ILL ADULTS. (6)
The didactic portion of this course focuses on the assessment, differential diagnosis and management of critically ill adults. Emphasis is placed upon biological, behavioral and advanced nursing concepts and research in order to facilitate the management and evaluation of therapies for critically ill adults and their families. The clinical portion of this course focuses on the care of critically ill adults in high acuity environments. The emphasis is placed upon students becoming a collaborative member of the health care team and incorporating both medical and advanced nursing concepts in the care of critically ill adults and their families. Prereq: NUR 632, NUR 706.

NUR 708 MEASURING AND DOCUMENTING NURSING PRACTICE. (4)
This course provides the knowledge and skills essential for advanced practice nurses to evaluate patient care. A systematic approach to collecting information related to nursing practice provides nurses with opportunities to substantiate their contributions to advanced practice. Measuring, documenting, and reporting patient, family, and organizational outcomes will be addressed. Mechanisms for evaluating nursing practices with regard to available resources also are examined. Clinical experience provides opportunities to continue to work with adults with acute and chronic illnesses. In addition, students will focus on the use of practice evaluation methods to document patient/family outcomes within a specific agency. Prereq: NUR 705 or NUR 707 (depending on the student’s specialty area). Coreq: NUR 605.

NUR 710 ADVANCED PARENT-CHILD NURSING I. (2)
This seminar focuses on biopsychosocial concepts and theories related to the nursing care of children, adolescents, and their families. Students are expected to become familiar with research findings and literature applicable to parent-child nursing. Coreq: NUR 614.

NUR 711 ADVANCED PARENT-CHILD NURSING II. (2)
This seminar focuses upon application of theories, concepts, and research related to clinical decision-making in parent-child nursing. Prereq: NUR 710, NUR 614.

NUR 712 ADVANCED PARENT-CHILD SEMINAR. (3)
The student will focus on evaluation of relevant beliefs, concepts, and theories related to maximizing the health of the family from pre-conception through adolescence. Using evidence-based literature, the student will explore physiologic, pathophysiologic, cognitive, behavioral, and psychosocial concepts, theories, and issues for their relevance in providing innovative approaches to family health care. Attention will be directed toward economic, ethical, cultural, legal, political, and geographic factors that influence health behavior and care delivery. Family and child developmental theories will be used as an integrating framework. Prereq: NUR 601, NUR 602, enrollment in the graduate program in Nursing or consent of instructor.
The students in this course will test concepts and theories relevant to families. Collaboration with the family and other health care disciplines related to clinical decision making is expected. Students will apply knowledge with a variety of populations. Prereq: NUR 712, enrollment in graduate program in Nursing or consent of instructor.

Knowledge of families, pre-conception through adolescence, leadership, and clinical skills are applied to provide advanced nursing care to a selected population. Emphasis is placed on maximizing health and resolving actual or potential health problems for the individual and the family. Analysis of system problems in health care delivery is conducted. Prereq: NUR 713, enrollment in graduate program in Nursing or consent of instructor.

This seminar will focus on diagnosing and treating the biopsychosocial responses of families to the child bearing continuum. Concepts, theories, and research related to low risk mother and infant will be emphasized. Prereq: Admission to graduate program in nursing or consent of instructor.

The physiological, psychological, sociological, and behavioral responses of the high risk mother and family to interruptions during the normal maternity cycle will be explored. Emphasis will be on nursing assessment, diagnosis, interventions and evaluation appropriate to the maternal-fetal responses. Ambulatory and inpatient aspects of care will be investigated. Prereq: NUR 715.

This seminar will focus on the advanced practice psychiatric nurse’s role in the community. Emphasis will be placed on differentiating a variety of signs and symptoms to formulate possible diagnoses. Students will demonstrate proficiency in assessing, diagnosing, managing, and evaluating common, acute health problems. Emphasis is on analysis of the role of the nurse practitioner as a collaborative member of the health care team. Prereq: NUR 720, NUR 653, enrollment in the graduate program in Nursing or consent of instructor.

The physiological and social responses of parents will be examined. Emphasis will be on the role of the nurse practitioner as a collaborative member of the health care team. Prereq: NUR 720, NUR 653, enrollment in the graduate program in Nursing or consent of instructor.

Prereq: NUR 720, coreq: NUR 615.

The focus of this course will be on strategies for the assessment of health care needs of patients. Prereq: NUR 726, coreq: NUR 615.

This seminar will focus on the advanced practice nurse’s management in select common and stable chronic health problems of individuals across the lifespan. Emphasis will be placed on differentiating signs and symptoms to formulate possible diagnoses. Students will demonstrate proficiency in assessing, diagnosing, managing, and evaluating chronic health problems based on appropriate standards of care. In addition, the nurse practitioner’s role as a collaborative member of the health care team will be evaluated. Prereq: NUR 726, enrollment in the graduate program in Nursing or consent of instructor.

The focus of this course will be on strategies for monitoring delivery of care to populations and for evaluating program effectiveness. Issues involved in decision-making related to continuing, altering, or discontinuing services will be considered from a variety of perspectives including organizational theory, change theory, and political dynamics in the community. Emphasis will be placed on the use of systematic strategies in assessing, diagnosing, and managing and evaluating selected chronic health problems based on appropriate standards of care. In addition, the nurse practitioner’s role as a collaborative member of the health care team will be evaluated. Prereq: NUR 726, enrollment in the graduate program in Nursing or consent of instructor.

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NUR 739 NURSING CARE MANAGEMENT—CLINICAL OUTCOMES AND QUALITY IMPROVEMENT. (2-3) 
In this variable credit course, students will focus on articulating clinical outcomes for care management and on promoting optimal clinical outcomes. Students will learn methods of measuring clinical outcomes and will analyze issues associated with measuring outcomes that span service settings. Students will learn how to adapt the methods used by the Patient Outcome Research Teams for identifying optimal client outcomes with varying therapeutic interventions. Finally, students taking the course for three credits will learn methods of quality improvement in health care, including variance analysis, process improvement techniques, and how to work with multidisciplinary teams in continuous quality improvement. Prereq: NUR 737 and 738 or NUR 702 and 703.

NUR 740 NURSE-MIDWIFERY MANAGEMENT: NEONATE. (2) 
A study of theories, concepts, and research related to the neonate with emphasis on adaptation to extraneous life and stabilization of the newborn, parameters and methods of assessment, variations in normal, deviations from normal, and physical and emotional needs of the neonate. Focus will be on the theoretical aspects of the nurse-midwifery management of the care for the neonate. Prereq: Enrollment in the Nurse-Midwifery Component.

NUR 741 NURSE-MIDWIFERY MANAGEMENT: WELL WOMAN. (2) 
A study of theories, concepts, and research related to well woman health with emphasis on reproductive health maintenance, sexuality, family planning, variations in normal, deviations from normal, sexual dysfunction, infertility, and unplanned pregnancy. Focus will be on the theoretical aspects of the nurse-midwifery management of care for healthy women throughout the life span. Prereq: Enrollment in the Nurse-Midwifery Component; prereq or coreq: AHE 670 or equivalent.

NUR 742 NURSE-MIDWIFERY MANAGEMENT: ANTEPARTAL WOMAN. (2) 
A study of theories, concepts, and research related to the antepartal phase of the maternity cycle. Emphasis will be on the normal pregnant woman, common variations in normal, deviations from normal, fetal development, and enhancement of the pregnant family’s childbearing experience through utilization of the teaching-learning theory and principles of anticipatory guidance. Focus will be on the theoretical aspects of the nurse-midwifery management in the care of the pregnant family during the anteprtal phase of the maternity cycle. Prereq: NUR 741; coreq: NUR 744.

NUR 743 NURSE-MIDWIFERY MANAGEMENT: INTRAPARTAL & POSTPARTAL WOMAN. (2) 
A study of theories, concepts, and research related to the intrapartal and postpartal phases of the maternity cycle. Emphasis will be on the normal aspects during labor, birth, and the postpartum, common variations in normal, deviations from normal, fetal status during labor and the immediate period following birth, and enhancement of the pregnant family’s childbearing experience. Focus will be on the theoretical aspects of nurse-midwifery management in the care of the pregnant family during the intrapartal phase and postpartal phase of the maternity cycle. Prereq: NUR 740; prereq or coreq: NUR 742 and NUR 744.

NUR 744 NURSE-MIDWIFERY MANAGEMENT: WOMAN WITH PROBLEMS. (2) 
A study of theories, concepts, and research related to complications during the maternity cycle will be explored. Emphasis will be on common variations in normal, and deviations from normal. Focus will be on effects of the complications on the woman, fetus, pregnancy, labor, birth, and family, as well as the effects of pregnancy, labor, and fetus on the complications. The theoretical aspects of nurse-midwifery management will be stressed in relation to the care of women with complications during the maternity cycle. Coreq: NUR 742.

NUR 745 NURSE-MIDWIFERY PRACTICE ORGANIZATIONS. (2) 
A study of strategies for the development of nurse-midwifery practice and its relationship within the health care delivery system. Emphasis will be on the historical development of nurse-midwifery practice; structure and function of the American College of Nurse-Midwives and its relationship to practice; interdisciplinary organizations as they pertain to the maternal child health care delivery system; the legal base for nurse-midwifery practice; and the use of organizational, behavioral, and management theories, concepts and principles to design, administer, and evaluate various nurse-midwifery practice alternatives. Prereq: NUR 743.

NUR 748 MASTER’S THESIS RESEARCH. (0) 
Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

NUR 749 DISSERTATION RESEARCH. (0) 
Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters of 769 residence credit following the successful completion of the qualifying exams.
‡NUR 823 PROFESSIONAL NURSING II. (6)
The focus of this course is methods for making clinical decisions. Emphasis will be on how to collect and utilize data in formulating judgments about patient states and in choosing nursing actions for patients with health problems with predictable outcomes. Lecture, four hours; laboratory, six hours per week. Prereq: Junior standing in the RN-BSN curriculum in the College of Nursing. Prereq or coreq: NUR 831 and NUR 833.

‡NUR 826 CLINICAL DECISION MAKING IN PROFESSIONAL NURSING II. (6)
This course emphasizes clinical decision making with clients, families or groups experiencing complex or multiple health problems with unpredictable outcomes. The emphasis is on interpreting and using complex patterns of data in making decisions about patient care. Lecture, four hours; laboratory, six hours per week. Prereq: NUR 824. Prereq or coreq: NUR 835, NUR 837.

†NUR 827 IMPLICATIONS OF DRUG THERAPY FOR NURSES.

NUR 831 BIOLOGICAL CONCEPTS: THREATS TO HUMAN HEALTH. (2)
This course addresses biological concepts basic to nursing practice. Concepts essential for understanding major health problems which occur across the life span and that are encountered in multiple health care settings are discussed. Prereq: Junior year standing in the College of Nursing; coreq: NUR 832, NUR 834 for non-RN students.

†NUR 832 NURSING CARE OF ADULTS.

NUR 833 EPIDEMIOLOGIC CONCEPTS FOR HEALTH CARE. (2)
This course is an introduction to epidemiologic concepts and interdisciplinary applications to health care of aggregates; structure of the community as it relates to access and utilization of available resources; structure of the health care system; levels of prevention; levels of care and economic factors affecting health. Field assignments will allow students to explore data sources. Prereq: Junior standing in the College of Nursing; STA 200.

NUR 834 NURSING CARE OF CHILDREN. (5)
This course provides theoretical and clinical learning experiences to promote competence in the professional nursing care of child-rearing families. The nursing process is used to identify and treat human responses to actual or potential health problems. The focus is on the development of critical thinking and clinical decision-making skills to reduce stress and promote adaptation of clients and their families. Lecture, three hours; laboratory, six hours per week. Prereq: Junior year standing in the College of Nursing, NUR 827; coreq: NUR 831, NUR 832, NUR 835.

NUR 835 FAMILY HEALTH CONCEPTS. (2)
This course provides theoretical perspectives on family functioning throughout the lifespan. The focus will be on the developmental stages of families as influenced by social, cultural, economic, and political forces. Family assessment, promotion of health in families, and resources for referral will be emphasized. Prereq: Junior year standing in the College of Nursing; coreq: NUR 834 and NUR 836.

NUR 836 MATERNAL-NEONATAL NURSING. (5)
This course provides theoretical and clinical learning experiences to promote competence in the professional nursing care of child-bearing families. The nursing process is used to facilitate adaptive responses of families to the experience of childbirth. The focus is on the development of critical thinking and clinical decision-making skills to reduce stress and promote health and well-being of clients and their families. Lecture, three hours; laboratory, six hours per week. Prereq: Junior year standing in the College of Nursing.

NUR 837 MENTAL HEALTH CONCEPTS. (2)
This course presents concepts which are foundational to psychiatric-mental health nursing and are fundamental to professional nursing practice. Prereq: Junior year standing in the College of Nursing.

NUR 839 NURSING RESEARCH. (3)
This course provides a theoretical and methodological basis for applying nursing research to clinical practice. Skills necessary for participating in the use of nursing research are addressed. Legal and ethical ramifications of research are discussed. Prereq: Junior year standing in the College of Nursing; coreq: STA 200.

NUR 840 PSYCHIATRIC-MENTAL HEALTH NURSING. (5)
This course provides theoretical and clinical learning experiences in the psychiatric/mental health nursing care of clients (individuals, families, and groups). The focus is on complex psychiatric problems with unpredictable outcomes. Lecture, three hours per week; laboratory, six hours per week. Prereq: Senior standing in the College of Nursing; NUR 837.
NUR 841 ISSUES IN NURSING. (2)
This course involves a critical analysis of the emerging issues and problems affecting nursing and their impact on health care. The responsibilities of the individual practitioner and of the professional are emphasized. Prereq: Senior year standing in the College of Nursing or consent of the instructor.

NUR 842 COMMUNITY HEALTH NURSING. (6)
Concepts and skills of family and population-based nursing practice are applied using standards of Community Health Nursing. Health promotion and disease prevention are emphasized. Lecture, three hours; laboratory, nine hours per week. Prereq: Senior standing in the College of Nursing; NUR 833.

NUR 843 NURSING ETHICS. (1)
A variety of vignettes/case studies will be used to enable students to use decision-making processes to explore viable options to ethical dilemmas confronted in nursing practice. Delineation of facts and principles involved in each case will be prepared by the student in advance of each class in order for them to select a particular stance which they will then be prepared to defend. Prereq: Senior standing in the College of Nursing.

NUR 844 NURSING CARE OF ADULTS WITH COMPLEX HEALTH PROBLEMS. (5)
This course integrates theoretical and clinical content through the use of the nursing process in the nursing care of ill adults. Emphasis will be placed on assessment, diagnosis, management, evaluation of human responses to unpredictable health problems with complex care requirements. Students will be responsible for addressing the continuity of care between health care settings. Lecture, three hours; laboratory, six hours per week. Prereq: Senior year standing in the College of Nursing; coreq: NUR 846.

NUR 846 LEADERSHIP/MANAGEMENT IN NURSING. (5)
This course is designed for the student to demonstrate management and leadership skills as they relate to human and material resource management and clinical decision-making. Lecture, three hours; laboratory, six hours per week. Prereq: Senior standing in the College of Nursing; coreq: NUR 844.

NUR 850 NURSING AND SOCIETY I. (1)
This course provides beginning nursing students with the opportunity to develop effective behaviors for student success as they explore the concepts of health and wellness across the lifespan and discover the uniqueness of nursing as a discipline in a historical context and within the culturally diverse environment. Prereq: Admission to the College of Nursing or consent of instructor.

NUR 852 NURSING AND SOCIETY II. (1)
As a continuation of NUR 850, this course will provide students with the opportunity to examine evolving health care delivery systems and nursing roles, consider moral and ethical decision making issues, and begin development of professional behavior and communication skills. Prereq: NUR 850 or consent of instructor.

NUR 851 FAMILY HEALTH PROMOTION AND COMMUNICATION ACROSS THE LIFESPAN. (8)
This course introduces the baccalaureate student to the concepts of health and physical assessment, health promotion, and therapeutic communication skills as they are applied with diverse populations in a variety of clinical settings. In addition, students will develop critical thinking skills useful to the nurse in promoting health in individuals and families across the lifespan. Lecture, five hours; laboratory nine hours per week. Prereq: Admission to the College of Nursing; COM 199, NUR 852, Certified Nursing Assistant (CNA) Credentialing, First Aid Certification, and Basic Cardiac Life Support Certification (BCLS), required immunizations, or consent of instructor.

NUR 852 PHARMACOLOGY. (3)
This is a general introductory course to drugs and drug therapy. Various drugs will be studied and categorized in the context of clinical pathological disorders or problems. The general approach will involve a study of the pathophysiology of specific disorders and the categories of drugs currently employed in the treatment of these problems. The students will learn mechanisms of action, therapeutic effect, side effects, drug interactions, and toxicities of these drugs, and will be provided with examples of commonly used drugs (both old and new) in each of these categories. Prereq: NUR 861 or consent of instructor. Co-req: NUR 863, NUR 864.

NUR 863 PROFESSIONAL NURSING CARE ACROSS THE LIFESPAN. (8)
The course will provide didactic and clinical experiences that enable the student to provide beginning professional nursing care with individuals and families requiring interventions across the lifespan. Students will use the key concepts of nursing process, teaching-learning, and physical and psychosocial assessment in the care of people with basic alterations in ability to meet human needs. Content related to providing a safe care environment, such as administering and monitoring medications and aseptic technique will be addressed. Lecture, five hours; laboratory, nine hours per week. Prereq: NUR 861, BCLS Certification, required immunizations, or consent of instructor. Co-req: NUR 862, NUR 864.

NUR 864 PATHOPHYSIOLOGY. (3)
This course addresses pathophysiological concepts basic to nursing practice. Concepts essential for understanding major health problems which occur across the life span and that are encountered in multiple care settings are discussed. Emphasis is on understanding how and why various pathophysiological signs and symptoms occur. Prereq: ANA 299, PGY 206, NUR 861, or consent of instructor. Co-req: NUR 862, NUR 863.

NUR 871 FAMILY CENTERED CARE OF ADULTS WITH COMMON HEALTH PROBLEMS. (7)
This course will provide classroom and clinical experiences to enable the student to provide continuity of nursing care for adult populations with a variety of common health problems across settings. Lecture, three hours; clinic, 12 hours per week. Prereq: Junior year standing in nursing, NUR 862, NUR 863, NUR 864, BCLS Certification, required immunizations, or consent of instructor. Co-req: BIO 208, HSM 241.

NUR 872 CLINICAL REASONING: QUANTITATIVE, QUALITATIVE, AND EPIDEMIOLOGICAL APPROACHES. (3)
Students develop the clinical reasoning skills needed to use quantitative, qualitative and epidemiological findings to solve clinical problems. Each of these three approaches is examined for its history, philosophy and relevance to health care. Legal and ethical issues inherent in each of the three approaches are discussed. Students learn to communicate findings from these clinical reasoning approaches to a variety of audiences. Partial fulfillment of the oral communication requirement in the University Studies Program. Prereq: STA 200 or equivalent, or consent of instructor.

NUR 873 NURSING CARE OF CHILDREARING, CHILDBEARING FAMILIES. (7)
This course is designed to provide classroom and clinical experiences to enable the student to provide continuity of nursing care for families during uncomplicated labor and delivery, postpartum and neonatal periods and when children and adolescents experience a variety of health problems. Lecture, three hours; laboratory, 12 hours per week. Prereq: NUR 871, BCLS Certification, required immunizations, or consent of instructor.

NUR 880 LEADERSHIP/MANAGEMENT IN NURSING CARE DELIVERY. (3)
This course is designed to advance the student’s ability to use leadership and management theory in nursing practice within current and emerging organizational systems. The professional nurse’s role in management of care will be examined and practiced including responsibilities for resource management and management of legal and ethical dilemmas in various organizational systems. Prereq: HSM 241, NUR 873 or consent of instructor.

NUR 881 PSYCHIATRIC-MENTAL HEALTH NURSING. (5)
This course is designed to develop students’ skill in the use of psychiatric/mental health concepts to provide nursing care to clients across the lifespan and in a variety of settings. Lecture, three hours; clinic, six hours per week. Prereq: NUR 872, NUR 873, BCLS Certification, required immunizations, or consent of instructor.

NUR 882 SPECIAL TOPICS IN NURSING. (1-3)
Study and analysis of current and topical problems and issues in nursing. Directed by a faculty member with expertise in the topic under study. May be repeated to a maximum of 18 credits. Prereq: Admission to the College of Nursing.

NUR 883 PUBLIC HEALTH NURSING. (5)
This course is designed to develop students’ skills in applying health promotion and disease prevention frameworks and in using epidemiological and public health concepts to deliver nursing care with diverse populations in a variety of settings. Emphasis will be placed on the effect of changing health care delivery systems on nursing practice. Lecture, three hours; clinic, six hours per week. Prereq: NUR 872, NUR 873, HSM 241, BCLS Certification, required immunizations, or consent of instructor.

NUR 884 CAREER MANAGEMENT IN NURSING. (2)
The course provides students with the skills for ongoing professional development and success in nursing. Prereq: NUR 880, NUR 881, NUR 883 or consent of instructor. Co-req: NUR 885.

NUR 885 HIGH ACUITY NURSING. (5)
The course emphasizes critical thinking and data analysis skills in the nursing management of patients with complex health problems with unpredictable outcomes. Students will collaborate with other health care professionals to plan, implement, and evaluate family-centered nursing care across the lifespan in high-acuity settings. Lecture, four hours; clinic, three hours per week. Prereq: NUR 881, NUR 883, BCLS Certification, required immunizations, or consent of instructor. Co-req: NUR 884.
NUR 886 SYNTHESIS OF CLINICAL KNOWLEDGE FOR NURSING PRACTICE. (6)
This course was designed to provide opportunity to develop independence and competence in applying principles of care management and leadership to nursing practice in a variety of clinical settings. Lecture, one hour; clinic, 15 hours per week. Prereq: All other courses in the curriculum, BCLS Certification, required immunizations, or consent of instructor. Co-req: NUR 884, NUR 885.

NUR 895 ELECTIVE STUDY IN NURSING. (1-4)
An independent study project investigating an area of interest under the guidance of faculty. May encompass library study or patient care utilizing aspects of scientific approach. May be repeated to a maximum of four credits. Prereq: Approval of sponsoring instructor and the assistant dean.

#NUR 900 PROCESS OF NURSING LEADERSHIP. (3)
Students synthesize theoretical leadership concepts with personal and professional values and gain an appreciation for the changing sociocultural context in which clinical leadership is practiced. Issues of power, creativity, innovation, ethics and gender concerns are addressed. Self-reflection is used to develop interpersonal skills that enhance leadership. Lecture, two hours; laboratory, two hours per week.

#NUR 901 NURSING LEADERSHIP THROUGH EFFECTIVE USE OF SELF. (4)
Building on skills developed in the Process of Leadership for Nurse Executives course, students focus on leading multiple constituencies. Within a clinical context, working with multiple disciplines and stakeholders, communication, negotiation, conflict management, public speaking, business etiquette, and media training are addressed. Lecture, two hours; laboratory, four hours per week. Prereq: NUR 900.

#NUR 905 CLINICAL PROGRAM DEVELOPMENT AND IMPLEMENTATION. (3)
This course provides students with the tools to conduct strategic analysis and planning for nursing and health care programs, and to develop and implement health care programs. Students evaluate the choice of program planning models and analyze the implications of implementation and change theory for program operationalization. Emphasis is on a broad strategic view of health care systems and on effective clinical program implementation within integrated care delivery systems. Prereq: NUR 914 or consent of instructor.

#NUR 906 EVALUATION FOR IMPROVEMENT OF CLINICAL PRACTICE AND OUTCOMES. (3)
This course provides students with the tools to evaluate and improve health care programs and clinical outcomes. Students develop feasible and reliable program evaluation designs. Students analyze the nature of, and explanations for variations in clinical practice patterns and clinical outcomes. Emphasis is on the use of program evaluation for improvements in clinical outcomes, efficiency, resource allocation, and cost reduction. Prereq: NUR 905.