

# College of Health Professions

**Offices: 400 Ahlberg Hall**

**Peter A. Cohen**, *dean*

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**Medical Technology**, (316) 978-3146—Mary Conrad, *chairperson*

**Physical Therapy**, (316) 978-3604—Camilla Wilson, *chairperson*

**Physician Assistant**, (316) 978-3011—Richard Muma, *acting chairperson*

**Public Health Sciences**, (316) 978-3060—Mary Lescoe-Long, *acting chairperson*

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The College of Health Professions offers graduate programs leading to a Master of Public Health, Master of Science in Nursing, and Master of Physical Therapy. Admission to these programs requires a bachelor's degree and the fulfillment of requirements listed for each program elsewhere in the *Graduate Bulletin*.

## School of Health Sciences

The School of Health Sciences offers graduate programs leading to the Master of Public Health and Master of Physical Therapy degrees. Specific requirements for each degree are described under the appropriate listing below.

## Basic Health Sciences (HS)

### Courses for Graduate/Undergraduate Credit

**HS 583. Anatomy of the Body Cavities. (3).** The gross anatomy of the human body cavities presented in a four-week summer term using a regional approach. Teams of eight students dissect the thoracic, abdominal, and pelvic cavities on human cadavers, emphasizing cardiovascular, respiratory, gastrointestinal, and urogenital systems. Prerequisite: BIOL203 or 223.

**HS 631. Normal and Clinical Nutrition. (4).** Studies human nutritional needs in normal development and the life cycles. Covers composition, classification and function of foods and nutrients, food handling and public health safety and laws, and nutrition in special situations. Includes a study of principles of nutritional support and diet as therapy. Addresses the dietary concerns of a variety of clinical disorders, including gastrointestinal disorders, diabetes

mellitus, cancer, burns, liver disease, obesity and weight loss, eating disorders, HIV infections, kidney and cardiovascular disease, parenteral and enteral nutrition, and surgical conditions. Studies nutritional assessment, data interpretation, care planning, record keeping, and client communications. Prerequisites: general chemistry, anatomy, and physiology.

**HS 700. Gross Anatomy. (6). 3R; 9L.** For students in the physical therapy program. Study of the structure of the human body emphasizing integration of anatomical information with human functional abilities. Prerequisites: four semesters of biological sciences or program consent.

**HS 710. Applied Clinical Pharmacology. (3).** Discusses clinical applications of selected drug classes commonly prescribed in the primary care setting as well as the follow-up management of common chronic diseases. Discusses pharmacological managements as to pharmacokinetics, dosages, mechanisms of action (at molecular and systemic levels), side effects, drug interactions, contraindications, therapeutic use, and expected outcomes. Emphasizes the practical application of this knowledge in various patient populations of all ages as well as rational drug selection and monitoring. Methodology includes lecture presentations, group discussions, clinical case studies, assessment of recent literature, homework assignments, quizzes, and exams. Prerequisite: PHS 301, admission to graduate health professional program or PA professional program, or instructor's consent.

**HS 711. Pharmacological Management of Acute and Chronic Diseases. (3).** Discusses the clinical application of specific categories of drugs used in the treatment of several common acute and chronic diseases. Presents pharmacokinetics, mechanisms of action, dosages, side effects, and monitoring parameters of medications as they are used in these diseases and in various patient populations. Facilitates clinical application of this knowledge through case studies, class discussions, and reviews of the latest medical literature. Prerequisites: admission to graduate nursing program and department consent or completion of PHS 710 and admission to PA professional program.

**HS 720. Neuroscience. (3) 3R; 2L.** Integration of neuroanatomy and neurophysiology of the central and peripheral nervous systems with human functional abilities. Prerequisite: PHS 700 or program consent.

## Health Professions-General (HP)

### Courses for Graduate/Undergraduate Credit

**HP 570. Selected Topics (1-4).** Lecture/discussion; focuses on a discrete area content relevant to the health disciplines. In-depth study of a particular topic or concept, including didactic and current research findings and technological advances relevant to the topic. Repeatable to a maximum of 6 credit hours with program consent. Upper-division status.

**HP 750. Workshop in Health Professions (1-4).** An opportunity for intensive study of special topics related to health profession practice, education, or research.

## Medical Technology (MED T)

### Course for Graduate Students Only

**MED T 800. Seminar in Laboratory Sciences (1-3).** Discusses recent issues and advances in the field of clinical laboratory science, including the areas of microbiology, chemistry, hematology, immunology, and immunohematology. Students are responsible for assigned topics, using current journal articles as a resource material. Prerequisite: departmental consent.

## Physician Assistant (PA)

### Course for Graduate/Undergraduate Credit

**PA 525. Special Topics (1-4).** Lecture/discussion; focuses on a discrete area content relevant to the health disciplines. In-depth study of a particular topic or concept, including didactic and current research findings and technological advances relevant to the topic. Open to non-majors; requires department consent.

## Public Health Sciences

Graduate Faculty

*Professors:* Michael Long, James H. Swan

*Associate Professor:* Mary Lescoe-Long (acting MPH director)

*Assistant Professors:* Stephen C. Gladhart, Ruth B. (Toni) Pickard

The Department of Public Health Sciences offers the Master of Public Health degree. A graduate certificate in public health is available for individuals whose primary goal is core public health training.

## Master of Public Health (MPH)

The MPH program is fully accredited by the Council on Education for Public Health (CEPH). The program prepares graduates to solve public health problems as practitioners who can apply a breadth of core public health knowledge as well as expertise and experience in a specific area of public health. Students may choose to focus on career-building skills in one of the following areas of interest: public health administration, health policy, health promotion, community epidemiology, public health leadership, and public health research design and analysis.

The program also offers an opportunity to actively involve current public health practitioners and other health professionals in a manner that enhances the quality of instruction and provides a greater depth of expertise and experience. It is designed to meet the needs of both full-time students and working health care professionals. Students may complete the

degree on either a part-time or full-time basis through evening course work. The MPH degree program may be completed on an intensive basis in eighteen months or in two to four years on a part-time basis.

While there are dozens of specialties in public health, most career opportunities are found in the following fields: health services administration, public health practice and program management, biostatistics, epidemiology, community development, nutrition, biomedical and laboratory practice, health education, environmental sciences, occupational safety and health, and international public health.

**Admission Requirements**

Admission to the MPH degree program requires that the applicant:

1. Have a bachelor’s degree (or its equivalent ) and a grade point average of 3.000\* or its equivalent awarded by a regionally accredited institution of higher learning or a foreign university with substantially equivalent requirements for the bachelor’s degree.

2. Demonstrate one or more years of responsible work experience in the health field, or possess a degree in a recognized health profession, or produce other evidence of training and/or experience indicative of adequate preparation for the curriculum. Assessment of work experience will be conducted on the basis of written job description(s) or other description(s) of the scope of duties obtained from prior or current employer(s).

3. Have obtained an averaged percentile score of 50th percentile or better on the Graduate Record Examination (GRE)\* or have successfully completed a postbaccalaureate degree program. Scores from other nationally recognized tests of aptitude for post-baccalaureate study may be substituted for the GRE, e.g., Medical College Admissions Test (MCAT), Law School Aptitude Test (LSAT), Graduate Management Aptitude Test (GMAT), Dental School Admission Test (DSAT).

4. Submit an official report of completion of the Test of English as a Foreign Language (TOEFL) with a composite score of 570 or better if the native language is not English. This report must be no more than two years old at the time it is reviewed by the MPH admissions committee.

\*A formula weighting the GPA and GRE is under development. Applicants are urged to check program materials for the upcoming revision.

To be considered for admission to the program through WSU, applicants should assure receipt of the following at WSU:

1. Official transcripts(s) from all institutions of higher learning attended;
2. Official report of Graduate Record Examination scores;
3. Three (3) letters of recommendation from employers, instructors, or other persons with knowl-

edge of the applicant that is pertinent to an assessment of their potential for success in the MPH program and/or subsequent career in public health or a related discipline;

4. A properly completed Application for Admission to MPH Program of Study;

5. A resume or curriculum vita;

6. A completed graduate school application for Wichita State University.

Early application is recommended when seeking admission to the MPH program. Applications will be accepted for guaranteed review only if all required materials are postmarked by March 31 for the fall semester and August 31 for the spring semester. Applicants will be notified of their admission status by the Graduate School. Records will be reviewed only when all material have been submitted and all eligibility rules have been met.

Fall is the primary admission semester for full-time study (9 credit hours or more). Applicants seeking full-time study beginning in the spring semester will be reviewed on a space-available basis only. Applications will be accepted for both fall and spring semesters for part-time study (less than 9 credit hours).

Admission to the MPH program is valid only for the semester for which the individual has been accepted. Individuals must reapply (and become part of the general competitive application pool) for any other semester.

**Degree Requirements**

The award of the MPH degree requires 36 credit hours including successful completion of the practicum-project or thesis. Students are expected to maintain a B average of better to remain a degree candidate. The MPH student will develop competencies in the five basic public health specialty areas, including public health administration, epidemiology, biostatistics, social/behavioral sciences, and environmental health. The student must complete 16 core course hours and the 6-hour block of the practicum-project or thesis, as well as a minimum of 14 elective hours, as follows:

<i>Core courses</i>	<i>Hrs.</i>
PHS 804, Principles of Statistics in the Health Sciences.....	4
PHS 808, Principles of Epidemiology.....	3
PHS 812, Health Care Policy and Administration.....	3
PHS 814, Social and Behavioral Aspects of Public Health.....	3
PHS 816, Environmental Health.....	3
	<u>16</u>

*Program electives* .....a minimum of 14 hours

<i>Practicum-project option</i>	
PHS 840, Practicum/Project.....	6

*Thesis option*

PHS 818, Fundamental Research Methods in Public Health.....	3
PHS 885, Thesis.....	<u>1-3</u>
	36

**Graduate Certificate in Public Health**

Students who complete the certificate in public health will bring basic public health competencies to their work in health and medicine.

Admission to this graduate certificate program in requires that the applicant:

a. Have a bachelor’s degree from a regionally accredited institution, or a foreign university with substantially equivalent requirements for the bachelor’s degree, and have a minimum GPA of 2.750 in the last 60 hours of course work.

b. Demonstrate evidence of training and/or experience indicative of adequate preparation for the curriculum. This could include a degree in a recognized health profession, one or more years of responsible work experience in the health field, or other relevant evidence. Assessment of work experience will be conducted on the basis of written job description(s) or other description(s) of the scope of duties obtained from prior or current employer(s).

c. Submit an official report of completion of the Test of English as a Foreign Language (TOEFL) with a composite score of 570 or better if the native language is not English. This report must be no more than two years old at the time is reviewed by the certificate admissions committee.

The total number of credit hours required for the certificate in public health is 16 with a cumulative grade point average of 3.000 or above and no grades below C. Students complete the following courses:

<i>Courses</i>	<i>Hrs.</i>
PHS 804, Principles of Statistics in the Health Sciences.....	4
PHS 808, Principles of Epidemiology.....	3
PHS 812, Health Care Policy and Administration.....	3
PHS 814, Social and Behavioral Aspects of Public Health.....	3
PHS 816, Environmental Health.....	3

**Public Health (PHS)**

**Courses for Graduate/Undergraduate Credit**

**PHS 575. Special Topics or Selected Topics (1-4).** Lecture/discussion; focuses on a discrete area content relevant to the health disciplines. In-depth study of particular topic or concept, including didactic and current research findings and technological advances relevant to the topic. Open to nonmajors. Repeatable up to 6 credit hours with program consent.

**PHS 638. Concepts of Quality (3).** For health care personnel. Covers issues of quality assurance and improve-

ment in health care provision, including definition and measurement of quality. Prerequisite: PHS 320 or departmental consent.

**PHS 640. Introduction to Public Health (3).** Introduction to the organization and activities of the public health system, its roles and problems. Introduction to administrative problem-solving as a structured process. Not recommended for students in the master's program. Prerequisite: instructor's consent.

**PHS 641. Cultural Competency in Health Care (3).** Examines the characteristics and health-related needs of population groups with higher-than-average risk of disease, disability, or premature deaths, including the frail elderly, racial and ethnic minorities, homeless people, refugees and immigrants, people with AIDS, alcohol and substance abusers, teen mothers, low-birthweight infants, victims of family or other violence, the chronically or mentally ill, and persons with mental retardation and developmental disabilities. Uses a social epidemiology approach to explore relationships between public policy and private behavior. Looks at societal factors influencing the kinds of care available to vulnerable populations as well as how cultural differences among such groups affect lifestyle choices, attitudes toward health, help-seeking behavior, and service utilization. Reflecting targets stipulated by the Centers for Disease Control (CDC) in their *Healthy People 2010* initiative, course identifies ways to reduce the disparities between those with high vulnerabilities and the rest of the population. Taking an applied approach, each student is engaged in significant problem-solving efforts. Accesses the community and its issues through the Health Options for Planeview (HOP) program, the community-based laboratory for WSU's Department of Public Health Sciences.

**PHS 647. Health Care Operations Analysis (3).** An examination of methods for measuring the operational efficiency and effectiveness of health care and medical care programs. Includes methods to analyze and evaluate current operations and approaches to plan better manpower, facility, technology, financial planning, and management control systems in a health setting. Prerequisites: PHS 320 and 328 or MGMT 360 or departmental consent.

**PHS 652. Strategic Management in Health Service Organizations (3).** Provides an analysis of business problems seen in health care organizations from a strategic management perspective. Uses a series of case studies which require the student to integrate the functional areas of business, including management, marketing, finance, and operations. Discusses all types and sizes of health service organizations in the context of the current environment for these organizations. Prerequisite: PHS 328 or departmental consent.

**PHS 686. Seminar in Health Services Organization and Policy (3).** In-depth discussion and analysis of selected topics in health care administration. Topics vary from semester to semester and include examination of specific financial, managerial, and operational problems and characteristics of health service organizations and agencies.

**PHS 750. Workshop in Health Related Professions (1-4).** An examination of relevant topics directly and/or indirectly related to the delivery of health care service.

### Courses for Graduate Students Only

**PHS 804. Principles of Statistics in the Health Sciences (4).** An introductory graduate-level course concerning the concepts of statistical reasoning, statistical principles, and their role as the scientific basis for clinical research, and public health research, and practice. The lab reinforces concepts learned in lecture and emphasizes the application of statistical methodology to public health practice and public health research.

**PHS 808. Principles of Epidemiology (3).** An introductory graduate-level course concerning epidemiologic principles and how these form the scientific basis for public health.

**PHS 809. Management of Public Health Data (3).** Covers basic computing skills necessary for any advanced epidemiologic or administrative quantitative methods. Includes basics of variable and dataset creation, building, maintenance, and basic descriptive (not interpretative) analysis. For students entering a variety of research, administrative, and public health settings in public health, clinical, or other fields. Software covered includes SAS, SPSS, Epi Info, Kansas Integrated Public Health System Software (KIPHS), Microsoft Excel, and ACCESS. Course can stand alone or prepare students for biostatistics and epidemiology courses. Stresses public data presentations to prepare students to communicate about data with the lay public.

**PHS 810. Workshop in Biostatistics (1-3).** Topics in biostatistics selected each year according to the needs of the graduate program in public health. Explores methods in-depth in a workshop-style format that promotes active learning. Open to non-majors. Repeatable up to 6 credit hours with program consent. Prerequisite: PHS 804 or introductory course in statistics or instructor's consent.

**PHS 812. Health Care Policy and Administration (3).** An in-depth look at policy and management issues in the health system from a public health perspective. Includes health policy, trends in the health care system, and administrative issues. Critiques topics with regard to public health goals, the interests of consumers and providers, and ethics.

**PHS 814. Social and Behavioral Aspects of Public Health (3).** Examines the characteristics beliefs and behaviors of individuals and groups involved in the process of health care. Draws on concepts and principles of the social, behavioral, and clinical sciences, especially dynamics that define the interactions of providers and consumers of health care. Explores why people react to perceived symptoms the way they do, the reasons providers respond as they do to patients in different social attributes, the factors which predispose individual reactions to illness and its correlates, and the effects on health of societal agreements and expectations.

**PHS 816. Environmental Health (3).** A survey course in environmental health. Provides an understanding of the fundamental theory and methods for the control of disease. Includes environmental law, disease systems, water supplies, plumbing, waste water treatment, food sanitation, vector control, recreation sanitation, solid waste disposal, housing sanitation, and air pollution.

**PHS 818. Fundamental Research Methods in Public Health (3).** Stresses mastery of basic concepts and techniques of research methodology used in the health professions. Focuses on acquisition of the generic tools of research design and their application to the real-world problems confronting those who deliver health care, those who facilitate and/or manage the delivery of care, those who conduct clinical and health services studies, and those who make policy affecting the delivery arrangements. Prerequisites: PHS 804 and 808.

**PHS 821. Community Health Assessment and Development (3).** Focuses on three areas: (1) Value issues related to community health assessment and development, including value choices, clarification of choices, trade-offs, and public judgement. Explores the value and belief systems of libertarians, classic liberals, and communitarians. (2) Development of tools, both conceptual and technical, needed to conduct community health assessments. Includes measurement of health status and development of health care information systems. (3) Policy issues related to community development including allocation of health resources by comparing benefits of competing interventions. Addresses major allocation issues, such as who allocates resources, using the Health Resource Allocation Strategy.

**PHS 822. Advanced Research Methods (3).** Advanced topics in health services research: advanced descriptive analysis, advanced multivariate analysis, modeling, causal interpretations, issues in evaluation, proposal writing, special issues in research in health care settings, and problems encountered on research projects. Prerequisite: PHS 818.

**PHS 823. Social Epidemiology (3).** Examines the patterns and explanations for diversity in mortality and morbidity in populations, focusing on social factors including social class, race, ethnicity, culture, stress, and social relationships, both formal and informal. Explores current thinking about the explanations for mortality and morbidity patterns.

**PHS 825. Health Care Marketing (3).** Cross-listed as MKT 890C. An examination of marketing principles as applied in the health care sector. Recognize, discuss, and apply marketing principles to health care environments. Prerequisite: MKT 800.

**PHS 826. Politics in Health Care (3).** Course frames health and health care in the U.S. as political issues that affect the public well being. Students learn the basic principles of policy making for health-related issues (including problem emergence, agenda setting, historical precedents, windows of opportunity, politics of naming, funding strategies, coalitions, role of civil servants, public mobilization,

and organizational response) and apply those to a current health care issue with importance in Kansas. The policy project integrates theoretical principles with the realities of their effects on local needs.

**PHS 828. Evaluation Methods in Public Health (3).** Covers issues of evaluation in health settings, including needs assessment, setting objectives, selection, implementation, and evaluation of programs and interventions. Prerequisite: PHS818.

**PHS 830. Issues in Health Services (3).** An in-depth look at current issues facing health professionals. Topics, presented in lecture and student presentations and discussed in small groups, include health reform, access to care, other system issues, and organizational trends and strategies. Critiques topics with regard to public and private goals, consumer and provider interests, and ethics.

**PHS 831. The Essentials of Health Insurance and Managed Care (3).** A graduate level introduction to the fundamental principles of health insurance and the relationship of those principles to our evolving system of health care financing. Through lecture and discussion, students become familiar with the conceptual and statistical principles of risk, and the role of insurance in handling risk, rate setting, and benefits as they apply to health insurance plans, the organization and financing mechanisms associated with today's varied health insurance plans, health insurance and managed care, and the relationship of insurance concepts to Medicare.

**PHS 832. Quality Assurance of Health Care (3).** Covers issues of quality assurance in health care provision, including definition and measurement of quality.

**PHS 833. Health Economics (3).** An application of classical economic theories, principles, and concepts to the traditional U.S. medical care. Considers both the traditional and unique determinants of demand and supply, emphasizing the role of need for care, provider-induced demand, and health insurance. Also considers the legitimate role of government in health care.

**PHS 834. Financing Health Care Services (3).** Provides an examination of the principles of financial analysis and management used in health care institutions which are most useful to non-financial personnel. Emphasizes understanding and application of general financial concepts to the health setting and includes consideration of financial organization, sources of operating revenues, budgeting, and cost allocation methods.

**PHS 835. Organization, Financing, and Delivery of Health Care (3).** Introduces the organization, financing, and delivery modalities of the U.S. medical care system. Examines the development and application of hospital reimbursement methodology (DRC-based PPS) and physician reimbursement methodology (RBRUS). Introduces the principles of health insurance and examines the role of private and public (Medicare, Medicaid) health insurance in health care utilization. Also explores health status outcomes and quality of life measures.

**PHS 838. Applied Data Analysis (3).** Guides students through the data analysis and data management aspects of population-based research and evaluation studies. Includes managing data on personal computers using SPSS for Windows95, preparing data for computerization, cleaning and assessing the quality of data, developing and assessing measures, choosing appropriate statistical methods, reading and analyzing computer printouts, and reporting the results in research papers or technical reports. Requires application of statistical methods learned in introductory biostatistics as well as regression analysis. Students learn to use SPSS for Windows95. Uses population-based data, both survey and administrative. Analytic portion of course is organized around specific research questions and the statistical tools appropriate for answering them.

**PHS 840. Practicum (1-6).** Links academic studies with actual practice through observation and participation in the administrative and educational processes of public, voluntary, and private health organizations, under the direction of a preceptor from the host agency. Graded *Cr/NCr* only.

**PHS 841. Leadership and Change Agency in Public Health (3).** Explores the essential leadership competencies and characteristics necessary to effectively promote innovation and facilitate adaptation in today's complex and rapidly evolving health care system. Combines classic theory and cutting edge concepts to ground students in the principles which underpin the current emphasis on leaders as change agents. Explores and applies strategies for effective change in the thinking and behavior of people, the design and vision of organizations, and the health and well being of communities. Emphasizes the generalizability of leadership principles across the various sectors of public health.

**PHS 842. Public Health Applications to the World Wide Web (2).** Documents the creation and evolution of the Internet and World Wide Web and applications that allow these tools to be of relevance to public health and preventive medicine in the community setting.

**PHS 843. Health Program Planning (3).** An introductory course for students interested in developing health programs. Provides a conceptual framework of program planning and development. Develop and practice skills in the planning and evaluation of health programs by developing a program plan for a health program in a community of interest.

**PHS 844. Health Promotion Methods and Materials (3).** Develop competency in selecting and evaluating appropriate methods and materials for effective health promotion programs. Includes foundations of health communication, adult education theories and practice, community health education, and health promotion materials development and evaluation. Integrates theory into practice by developing the methods and materials for a health promotion program.

**PHS 858. Long-Term Care Systems (3).** Analyzes long-term care in the U.S. as a response to chronic illness and disability, emphasizing the diversity of long-term care systems

addressing the needs of persons of all ages. Addresses system and organizational concerns affecting costs, outcomes, and quality. Explicitly applies a trajectory model of chronic illness and disability, conceptualizing long-term care systems in their response to chronically ill and disabled individuals. Students are encouraged to have taken PHS 812 or to take it concurrently.

**PHS 875. Special Topics (3).** New or special topics presented based on sufficient demand. Prerequisite: instructor's consent.

**PHS 876. Directed Study (1-3).** Individual study of the various aspects and problems within public health. Repeatable for credit with departmental consent. Prerequisite: instructor's consent.

**PHS 885. Thesis (1-3).** Repeatable to a maximum of 6 hours. Prerequisite: consent of thesis advisor.

## Physical Therapy (PT)

Graduate Faculty

*Professor:* Kenneth Pitetti

*Associate Professors:* John Carter, Kathleen Lewis, Barbara Smith, Camilla Wilson (chairperson)

*Assistant Professors:* Dale Barb, Meri Goehring, Robert Manske, David Miers

## Master of Physical Therapy

The program prepares individuals to enter beginning practice as a physical therapist. The graduates are prepared to evaluate neuromuscular, musculoskeletal, sensorimotor, and related functions to determine the degree of muscle strength, motor development, motion, respiratory ventilation, or peripheral circulatory efficiency of individuals. Following referrals from physicians, podiatrists, or dentists, the physical therapist plans and implements appropriate treatment programs for their clients. Graduates are prepared to work in preventive health care as well as rehabilitative care. The program requires full-time study for a period of 26 consecutive months. Students enter the program in the summer semester only.

## Admission Requirements

Admission to the program requires that the student:

1. Have a bachelor's degree from an accredited four-year institution acceptable to the Graduate School.
2. Have a cumulative grade point average of 3.000 in the last 60 hours of graded course work, in prerequisite courses, and in all math and science courses.
3. Show evidence of having completing the following:

Biology—two semesters of introductory biology (which would lead to a biology major) with a laboratory  
Anatomy and Physiology—8 to 10 semester hours with laboratory  
College Chemistry—two semesters with laboratory

College Physics—two semesters with laboratory  
 English Composition—two semesters  
 Exercise Physiology—one semester  
 Computers—one semester computer applications course or the equivalent  
 Medical Terminology—1 semester hour  
 Speech—one semester  
 Mathematics—college trigonometry or equivalent  
 Statistics—one semester  
 Social Sciences—psychology, sociology, plus four more courses in any social science area  
 Humanities—ethics, plus four more courses in any humanities area  
 4. Show evidence of 20 hours of observation or work in one or more physical therapy settings.

To be reviewed for admission, applicants should do the following:

1. Seek an application packet from the Department of Physical Therapy.
2. Submit the designated Application for Admission and supporting transcripts to the Graduate School.
3. Submit the designated Physical Therapy Application, along with references by the published deadlines.

Applications will be accepted for review only if they are postmarked by January 31. Applicants will be notified of their admission status by the Graduate School. Applicants should be aware that their records can only be reviewed when all materials have been submitted and they have met eligibility rules. Once an applicant has been admitted, he or she will be asked to submit a \$100 nonrefundable tuition deposit to reserve a space for the summer admission. Once the student enrolls, this money will be counted toward payment of tuition.

Students are advised to contact the department for any changes in the program course requirements or in prerequisite requirements.

### Degree Requirements

The student must maintain a 3.000 grade point average and a C or better in each of the following courses:

Course	Hrs.
<i>Summer I</i>	
PT 715, Professional Issues and Ethics.....	3
PT 705, Clinical Medicine I.....	2
PT 707, Introduction to Patient Management Skills.....	2
	7
<i>Fall I</i>	
PT 701, Research Methods and Statistics.....	2
HS 700, Gross Human Anatomy.....	6
PT 711, Clinical Biomechanics.....	3
PT 726, Clinical Medicine II.....	2
PT 735, Physical Agents in Physical Therapy.....	4
	17

<i>Spring I</i>	
PT 841, Directed Research I.....	2
HS 720, Neuroscience.....	3
PT 710, Foundations for Evaluation and Treatment of Musculoskeletal Conditions.....	3
PT 730, Therapeutic Exercise.....	2
PT 745, Clinical Medicine III.....	2
PT 747, Assessment and Intervention in Acute Conditions.....	4
	16

<i>Summer II</i>	
PT 800, Clinical Education I.....	6
	6

<i>Fall II</i>	
PT 842, Directed Research II.....	2
PT 816, Physical Therapy Administration I.....	2
PT 809, Orthopedic Assessment and Intervention I.....	3
PT 832, Neurological Assessment and Intervention.....	3
PT 865, Lifespan Assessment, Intervention, and Prevention.....	2
PT 824, Education Methods in Physical Therapy.....	1
Electives, not required.....	1-3
	14-16

<i>Spring II</i>	
PT 843, Directed Research III.....	2
PT 818, Physical Therapy Administration II.....	2
PT 811, Orthopedic Assessment and Intervention II.....	3
PT 802, Cardiopulmonary Assessment and Intervention.....	2
PT 850, Clinical Education II.....	6
Electives, not required.....	1-3
	16-18

<i>Summer III</i>	
PT 860, Clinical Education III.....	6
PT 870, Clinical Education IV.....	6
	12
<i>Total hours</i>	86-92

### Special Requirements

Students will be required to purchase uniforms and other clinical apparel, professional liability insurance, health insurance coverage, and specified immunizations, as well as submit evidence of an annual physical examination while in the program. Students must also be certified in cardiopulmonary resuscitation (CPR) prior to entering the clinical rotations.

Students are expected to provide their own transportation to and from the health care facilities used for clinical experiences. During clinical assignments outside Wichita, students may be required to pay all living and travel expenses.

Students are referred to the Department of Physical Therapy *Student Handbook* for more details on special departmental policies and procedures.

### Courses for Graduate/Undergraduate Credit

**PT 701. Research Methods and Statistics (2).** Discussion and application of statistics, critiquing scientific literature, and the development of a research proposal and major literature review. Prerequisite: departmental consent.

**PT705. Clinical Medicine I (2).** Presents the causes, diagnoses, effects, treatment, and prognoses for general medical conditions seen by physical therapists. Coordinated by the department faculty and organized around the medical model. Prerequisite: departmental consent.

**PT707. Introduction to Patient Management Skills (2).** Introduces the student to basic patient care and medical terminology. Through clinical observation sessions, students become familiar with various types of physical therapy settings. Prerequisite: departmental consent.

**PT709. Therapeutic Exercise (3).** Introduces the scientific principles of therapeutic exercise foundations and techniques for physical therapists. Follows the standards of physical therapist practice. Laboratory sessions include skill development for safe, effective use of basic therapeutic exercise equipment. Prerequisite: departmental consent.

**PT710. Foundations for Evaluation and Treatment of Musculoskeletal Conditions (3).** Introduces the basic scientific foundation and clinical rationales used during evaluation and treatment of musculoskeletal conditions. In-depth studies of the art of palpating surface anatomy, performance of manual muscle testing (MMT), and goniometric measurements. Emphasizes review of clinical and scientific literature pertaining to evaluation and treatment of musculoskeletal conditions. Prerequisite: departmental consent.

**PT 711. Clinical Biomechanics (3).** Presents a kinesiological foundation of all joints so students have the ability to differentiate causes of musculoskeletal problems. Prerequisite: departmental consent.

**PT 715. Professional Issues and Ethics (3).** Introduces the profession of physical therapy. Addresses the profession, settings for delivery of services, professional ethics, regulation of the profession, levels of personnel, and other issues directly related to the practice of the profession. Introduces specific issues and challenges the profession is addressing as the larger system for health and medical services changes. Prerequisite: departmental consent.

**PT726. Clinical Medicine II (2).** Presents the causes, diagnoses, effects, treatment, and prognoses for orthopedic conditions seen by physical therapists. Coordinated by department faculty and organized around the medical model. Prerequisite: departmental consent.

**PT730. Neurological Approaches to Patient Care (2).** Gives basic skills for assisting movement in patients with neurological impairments. Prerequisite: departmental consent.

**PT735. Physical Agents in Physical Therapy (4).** Presents utilization of physical modalities related to sound, light, electricity, water, paraffin, traction, and massage to achieve physiological and mechanical results. Incorporates evaluation and treatment methods for the above modalities along with analysis of relevant scientific literature. Prerequisite: departmental consent.

**PT745. Clinical Medicine III (2).** Presents the causes, diagnoses, effects, treatment, and prognoses for neurological, pulmonary, and cardiac conditions seen by physical therapists. Coordinated by department faculty and organized around the medical model. Prerequisite: departmental consent.

**PT 747. Assessment and Intervention in Acute Conditions (4).** Addresses the management of acute physical conditions, including industrial medicine intervention, lower extremity amputation management, and upper extremity orthotic devices. Also includes the management of intensive care patients in the hospital and at home. Prerequisite: departmental consent.

**PT 790. Selected Topics in Physical Therapy (1-4).** Intensive study of current issues, technology, research, and application of selected topic. Repeatable up to 6 credits. Prerequisite: departmental consent.

**PT 799. Experimental Courses (1-4).** One-time course offerings. Prerequisite: departmental consent.

### Courses for Graduate Students Only

**PT800. Clinical Education I (6).** Introduction to physical therapy care in varied settings requiring communication and interpersonal relations skills; application of basic physical therapy procedures; beginning professional socialization; beginning development of a generalist in physical therapy. Prerequisite: departmental consent.

**PT 802. Cardiopulmonary Assessment and Intervention (2).** Continuation of PT 745. Adds concepts and material to allow students to assess and treat patients with cardiopulmonary conditions. Prerequisite: departmental consent.

**PT809. Orthopedic Assessment and Intervention I (3).** Introduces the basic scientific foundation and clinical rationale used during evaluation, assessment, and treatment of musculoskeletal conditions. Builds on first year PT courses. In-depth study of different injuries and lesions, specific evaluation techniques, and treatments of those injuries and pathologies. Deals mainly with the upper quarter and includes the entire upper extremity, cervical, and thoracic spine. Emphasizes organizing and synthesizing information from PT curriculum to allow integration and problem-solving skills to enable students to become competent practicing physical therapists. Prerequisite: departmental consent.

**PT 811. Orthopedic Assessment and Intervention II (3).** Continuation of PT 809. Deals mainly with the lower quarter and includes the entire lower extremity, lumbar

spine, sacroiliac joint, and pelvis. Emphasizes organizing and synthesizing information from PT curriculum to allow integration and problem-solving skills to enable students to become competent practicing physical therapists. Prerequisite: departmental consent.

**PT816. Physical Therapy Administration I (2).** Studies management systems including assessment, planning, organization, staffing, leadership and motivation, control, and evaluation methods. Includes environmental assessment and strategic planning, organizational design, human resource management, fiscal considerations, and leadership and management styles. Prerequisite: departmental consent.

**PT818. Physical Therapy Administration II (2).** Studies payment systems, legal aspects of physical therapy, risk management, assurance of quality physical therapy care. Includes peer review, audit, documentation, legal and ethical aspects, fiscal consideration, and community resources. Prerequisite: departmental consent.

**PT824. Educational Methods in Physical Therapy (1).** Discusses teaching and learning theories as they apply to physical therapy education of patients, students, health professionals, and the community. Includes methods of developing and evaluating content, instructional strategies, and learning outcomes. Prerequisite: departmental consent.

**PT832. Neurological Assessment and Intervention (3) 2R; 3L.** Continuation of PT 745. Adds concepts and material to allow students to assess and treat patients with neurological conditions. Prerequisite: departmental consent.

**PT836. Physical Therapy in Pediatrics (2).** Provides supplemental skills for the entry-level physical therapist in the area of pediatrics. Didactic work and clinical exposure is incorporated in the class. Offered as an elective in the physical therapy program. Prerequisite: PT 730.

**PT837. Special Populations (3).** Expands upon basic evaluation and treatment skills of geriatrics, women's health, and industrial medicine regarding physical therapy practice. Also includes psychosocial elements, medical complications, health promotion, and prevention information as it pertains to the three special populations listed. Prerequisite: PT 735.

**PT840. Directed Study (1-3).** Individual study with a focus developed in collaboration with a departmental faculty member. Allows students to pursue an area of special interest. Prerequisite: departmental consent.

**PT841. Directed Research I (2).** First in series of three courses following PT 701 in which students work with an assigned advisor to plan either a research project or a research paper. Prerequisite: PT 701.

**PT842. Directed Research II (2).** Second in series of three courses following PT 701 in which students work with an assigned advisor to collect data and complete statistical analyses (as appropriate) for either a research project or a research paper. Prerequisites: PT 701, 841.

**PT843. Directed Research III (2).** Third in series of three courses following PT 701. Students complete either a research project or a research paper. Prerequisites: PT 701, 841, 842.

**PT850. Clinical Education II\* (6).** First in a series of three six-week courses offering continued development of clinical management of patients in varied clinical settings. Includes managerial aspects of care, teaching, and some opportunities for clinical research. Prerequisite: program consent.

**PT 860. Clinical Education III\* (6).** Continuation of PT 850. Prerequisite: program consent.

**PT865. Life Span Assessment, Intervention, and Prevention (2).** Incorporates specific areas of physical therapy as they are applied to individuals through their lifetime. Includes embryology; normal growth and development; healthy lifestyles for children, teens, and adults; obstetrics; and gerontology. Emphasizes prevention. Prerequisite: departmental consent.

**PT870. Clinical Education IV\* (6).** Continuation of PT 860. Prerequisite: program consent.

**PT890. Thesis (1-6).** Repeatable to a maximum of 6 hours. Prerequisites: enrollment in graduate studies and consent of thesis advisor.

\*In the series of three clinical courses, students experience four different settings including general and rehabilitation practices and a selected area of specialization not limited to pediatrics, geriatrics, and orthopedics. The order of the settings is flexible. There is an increase in the level of expectation of performance with each clinical course which is guided by the evaluation process.

## School of Nursing (NURS)

Juanita Tate, *associate dean and chair*

Graduate Faculty

*Professor:* Donna Hawley

*Associate Professors:* Alicia Huckstadt (director of graduate program), Janice Riordan, Elaine Steinke  
*Assistant Professors:* Loretta Forlaw, Carol Hammon, Karen Hayes, Martha Shawver, Betty Smith-Campbell

### Master of Science in Nursing

The program is individualized to meet the needs and professional goals of each student. The curriculum has been developed to accommodate part-time study (6 or fewer credit hours), as well as full-time study (9-12 credit hours). The purpose of the graduate program is to prepare advanced practitioners who function as clinical nurse specialists, nurse practitioners, administrators, and educators.

### Admission Requirements

In addition to the general University requirements for admission to graduate studies, the School of Nursing requires:

1. A bachelor's degree with a major in nursing from a nationally accredited (NLN or CCNE) school. RN applicants with a degree in another discipline or those seeking the RN to BSN/MSN accelerated plan will be considered and counseled on an individual basis.

2. Admission to the Graduate School at Wichita State University.

3. Cumulative grade point average of 3.000 or better in the last 60 hours for full standing.

4. School of Nursing approval.

5. Evidence of Registered Nurse licensure in Kansas.

6. Coverage by professional liability insurance in the amount of \$1/3 million individual/aggregate, to be renewed annually.

7. One year of nursing practice following professional licensure is recommended, but not required.

8. Computer literacy, including word processing skills, is essential.

Students may be admitted conditionally until all requirements for admission are completed. Items 5 and 6 must be completed before a student begins any clinical course and prior to filing the Plan of Study. Approval of the Plan of Study will clear the admission status from conditional to full standing.

*Prerequisites:* A course in statistics accepted by the School of Nursing and an undergraduate research course are required. Prerequisite courses are not credited to the degree.

### Comprehensive Examination

A comprehensive written examination, thesis, or research project is required of all graduate nursing students. Generally the exam is completed during the student's last semester.

### Options Available

#### *Clinical Nurse Specialist* (39-42 hrs)

Adult Health and Illness

Pediatrics

Psychiatric/Mental Health

#### *Nurse Practitioner* (45-46 hrs)

Acute Care

Family

Neonatal

Offered in collaboration with the University of Missouri-Kansas City and contingent upon continued funding

Pediatrics

#### *Nurse Midwifery* (51 hrs)

Offered in collaboration with the University of Kansas and contingent upon continued funding

#### *Nursing and Health Care Systems Administration* (42 hrs)

#### *Dual Degree MSN and MBA* (63 hrs)

Offered in collaboration with the W. Frank Barton School of Business

#### *Graduate Certificates* (Post Master's)

*MSN Degree for ARNPs*

### Clinical Nurse Specialist

*Course* *Hrs.*

#### *Adult Health and Illness—39-42 hours*

NURS 701/702, Advanced Health

Assessment/Lab . . . . . 2/1

NURS 703, Scientific Inquiry I . . . . . 3

NURS 705, Scientific Inquiry II . . . . . 3

NURS 715, Advanced Nursing Practice:

Roles and Issues . . . . . 3

HS 711, Pharmacological Management of

Acute/Chronic Diseases . . . . . 3

NURS 781, Pathophysiology-Acute/Critical . . . . 3

NURS 805, Health Promotion through the

Life Span . . . . . 3

NURS 808, Advanced Role Practicum . . . . . 3

NURS 834, Adult Nursing Practicum . . . . . 3

NURS 839, Management of Acute/Chronic

Health Problems of Adults . . . . . 3

NURS 851, Clinical Data Management\* . . . . . 3

NURS 852, Adult Case Management Practicum . . 3

Elective courses, Thesis or Project . . . . . 3-6

#### *Pediatrics—39-42 hours*

NURS 701/702, Advanced Health

Assessment/Lab . . . . . 2/1

NURS 703, Scientific Inquiry I . . . . . 3

NURS 705, Scientific Inquiry II . . . . . 3

NURS 715, Advanced Nursing Practice:

Roles and Issues . . . . . 3

NURS 793, Advanced Pathophysiology . . . . . 3

NURS 795, Applied Drug Therapy . . . . . 3

NURS 805, Health Promotion through the

Life Span . . . . . 3

NURS 808, Advanced Role Practicum . . . . . 3

NURS 829, Growth/Development of

Children/Families . . . . . 3

NURS 832, Pediatric and/or Women's Health

Nursing: Practicum I . . . . . 3

NURS 836, Pediatric and/or Women's Health

Nursing: Practicum II . . . . . 3

NURS 851, Clinical Data Management\* . . . . . 3

Elective courses, Thesis or Project . . . . . 3-6

#### *Psychiatric/Mental Health—39-42 hours*

NURS 701/702, Advanced Health

Assessment/Lab . . . . . 2/1

NURS 703, Scientific Inquiry I . . . . . 3

NURS 705, Scientific Inquiry II . . . . . 3

NURS 715, Advanced Nursing Practice:

Roles and Issues . . . . . 3

NURS 783, Brain Disorders in Mental Illness . . . 3

NURS 795, Applied Drug Therapy *or*

HS 711, Pharmacological Management of

Acute/Chronic Diseases . . . . . 3

NURS 808, Advanced Role Practicum . . . . . 3

NURS 819, Foundation of Psychiatric/Mental

Health Nursing . . . . . 3

NURS 822, Psychiatric/Mental Health Nursing:

Practicum I . . . . . 3

NURS 843, Perspectives in Psychiatric/Mental

Health Nursing . . . . . 3

NURS 844, Psychiatric/Mental Health Nursing:

Practicum II . . . . . 3

NURS 851, Clinical Data Management\* . . . . . 3

Elective courses, Thesis or Project . . . . . 3-6

\*NURS 851 is not required of those completing the thesis option.

### Nurse Practitioner

*Course* *Hrs.*

#### *Acute Care—46 hours*

NURS 701/702, Advanced Health

Assessment /Lab . . . . . 2/1

NURS 703, Scientific Inquiry I . . . . . 3

NURS 705, Scientific Inquiry II . . . . . 3

NURS 715, Advanced Nursing Practice:

Roles and Issues . . . . . 3

NURS 718, Advanced Technologies . . . . . 2

NURS 786, Advanced Health Assessment

Practicum . . . . . 2

NURS 781, Pathophysiology-Acute/Critical . . . . 3

HS 711, Pharmacological Management of

Acute/Chronic Diseases . . . . . 3

NURS 805, Health Promotion through the

Life Span . . . . . 3

NURS 834, Adult Nursing Practicum . . . . . 3

NURS 839, Management of Acute/Chronic

Health Problems of Adults . . . . . 3

NURS 849, Nurse Practitioner Preceptorship . . . . 6

NURS 851, Clinical Data Management . . . . . 3

NURS 852, Adult Case Management Practicum . . 3

NURS 855, Management of Acute/Critically Ill . . 3

#### *Family—45 hours*

NURS 701/702, Advanced Health

Assessment/Lab . . . . . 2/1

NURS 703, Scientific Inquiry I . . . . . 3

NURS 705, Scientific Inquiry II . . . . . 3

NURS 715, Advanced Nursing Practice:

Roles and Issues . . . . . 3

NURS 718, Advanced Technologies . . . . . 2

NURS 786, Advanced Health Assessment

Practicum . . . . . 2

NURS 793, Advanced Pathophysiology . . . . . 3

NURS 795, Applied Drug Therapy . . . . . 3

NURS 803, Primary Care I: Management of

Common Health Problems . . . . . 3

NURS 804, Primary Care I: Practicum . . . . . 4

NURS 805, Health Promotion through the

Life Span . . . . . 3

NURS 809, Primary Care II: Management of

Complex Health Problems . . . . . 3

NURS 810, Primary Care II: Practicum . . . . . 4

NURS 849, Nurse Practitioner Preceptorship . . . . 3

NURS 851, Clinical Data Management . . . . . 3

#### *Neonatal—45 hours*

This option is offered in collaboration with the University of Missouri-Kansas City and contingent upon continued funding.

NURS 703, Scientific Inquiry I . . . . . 3

NURS 705, Scientific Inquiry II . . . . . 3

NURS 713, Advanced Health Assessment of

the Neonate . . . . . 4

NURS 715, Advanced Nursing Practice:  
 Roles and Issues .....3  
 NURS 777, Physiology/Pathophysiology of  
 the Neonate .....3  
 NURS 789, Pharmacology for the Neonate .....3  
 NURS 805, Health Promotion through the  
 Life Span .....3  
 NURS 815, Neonatal Nursing I .....4  
 NURS 851, Clinical Data Management .....3  
 NURS 861, Neonatal Nursing II .....4  
 NURS 862, Neonatal Preceptorship I .....6  
 NURS 864, Neonatal Preceptorship II .....6

*Pediatrics*—46 hours

NURS 701/702, Advanced Health  
 Assessment/Lab ..... 2/1  
 NURS 703, Scientific Inquiry I .....3  
 NURS 705, Scientific Inquiry II .....3  
 NURS 715, Advanced Nursing Practice:  
 Roles and Issues .....3  
 NURS 718, Advanced Technologies .....2  
 NURS 786, Advanced Health Assessment  
 Practicum .....2  
 NURS 793, Advanced Pathophysiology .....3  
 NURS 795, Applied Drug Therapy .....3  
 NURS 805, Health Promotion through the  
 Life Span .....3  
 NURS 829, Growth/Development of  
 Children/Families .....3  
 NURS 847, Pediatric Primary Care I:  
 Common Health Issues .....3  
 NURS 848, Pediatric Primary Care I: Practicum ...3  
 NURS 857, Pediatric Primary Care II:  
 Complex Health Issues .....3  
 NURS 858, Pediatric Primary Care II: Practicum ...3  
 NURS 849, Nurse Practitioner Preceptorship .....3  
 NURS 851, Clinical Data Management .....3

**Nurse Midwifery**

This option is offered in collaboration with the University of Kansas School of Nursing and contingent upon continued funding. Students will apply to both WSU and KU. Contact the WSU School of Nursing for details. Graduates receive the MSN degree from WSU and a Certificate of Nurse Midwifery from KU.

*Curriculum* 51 credit hours  
*Common Core*  
 WSU School of Nursing Total 12  
 NURS 701/702, Advanced Health  
 Assessment/Lab ..... 2/1  
 NURS 703, Scientific Inquiry I .....3  
 NURS 705, Scientific Inquiry II .....3  
 NURS 715, Advanced Nursing Practice:  
 Roles and Issues .....3

*Advanced Practice Courses*

WSU School of Nursing Total 12  
 NURS 793, Advanced Pathophysiology .....3  
 NURS 795, Applied Drug Therapy .....3  
 NURS 805, Health Promotion .....3  
 NURS 851, Clinical Data Management .....3

*Nurse Midwifery Specialty Courses*

KU School of Nursing Total 22  
 N 830/831, Nurse Midwifery in the  
 Antepartal Period/Practicum .....3/2  
 N 832/833, Nurse Midwifery in the  
 Neonatal Period/Practicum .....1/1  
 N 836/837, Nurse Midwifery in the  
 Intrapartal Period/Practicum .....3/2  
 N 838/839, Nurse Midwifery in the  
 Postpartal Period/Practicum .....2/1  
 N 840, Nurse Midwifery in the  
 Integration Period Practicum .....6  
 N 841, Nurse Midwifery Professional  
 Seminar .....1

*Nurse Midwifery Specialty Courses*

University of Missouri Kansas City Total 5  
 N 564, PW Primary Health Care of Women .....4  
 N 564, NM Independent Study Primary  
 Health Care of Women Seminar .....1

**Nursing and Health Care Systems**

**Administration** 42 hours  
 NURS 703, Scientific Inquiry I .....3  
 NURS 705, Scientific Inquiry II .....3  
 NURS 715, Advanced Nursing Practice:  
 Roles and Issues .....3  
 NURS 775, Health Care Information Systems ...3  
 NURS 811, Foundations of Nursing  
 Administration .....3  
 NURS 812, Nursing Administration Practicum ...6  
 NURS 827, Resource Management in Nursing ...3  
 NURS 851\*, Clinical Data Management (to be  
 taken towards end of course work) .....3  
 NURS 863, Capstone Seminar .....3  
 Practicum (choose one): NURS 812  
 (Administration), NURS 814 (Education),  
 or NURS 776 (Informatics) .....3  
 MKT 812, Introduction to Total Quality  
 Management or PHS 638, Concepts of  
 Quality .....3  
 PHS 834, Financing Health Care Services .....3  
 Elective courses, Thesis or Project .....3-6

\* NURS 851 is not required for students completing the thesis option.

**Dual MSN/MBA Degree**

The School of Nursing and the W. Frank Barton School of Business offer a dual degree program in which both degrees are received. The 63-credit program includes a minimum of 27 credits in nursing, 33 credits in business administration, and 3 credits in health care administration. Seeking these degrees separately would require 87-93 credit hours.

There are additional admission requirements for the Master of Business Administration portion of the dual degree:

Admission to the MBA program is granted to students who show high promise of success in postgraduate business study and who hold a bachelor's degree from a regionally accredited institution. Although various criteria are considered in granting admission, special attention is

given to the applicants' grade point averages on academic work completed and to their test scores on the Graduate Management Admission Test (GMAT).

To be admitted, applicants must have 1,050 points based on the formula: 200 times a student's overall grade point average (GPA), plus the GMAT score; or 1,100 points based on 200 times the GPA in the last 60 hours of graduate and undergraduate work completed, plus the GMAT score.

*Curriculum Notes*

The prerequisites, MSN core curriculum, and MBA background fundamentals are taken before the practicum courses and the required MBA courses. Practica should be planned late in the program. Either full- or part-time enrollment is possible.

**Curriculum Plan**

*Master of Science in Nursing Portion* 30 hours  
*Core Curriculum*  
 NURS 531, Nursing and Computer Technology  
 (MBA prerequisite) .....3  
 NURS 703, Scientific Inquiry I .....3  
 NURS 705, Scientific Inquiry II .....3  
 NURS 715, Advanced Nursing Practice:  
 Roles and Issues .....3

*Clinical Concentration*

NURS 775, Health Care Information Systems ...3  
 NURS 811, Foundations of Nursing  
 Administration .....3  
 NURS 812, Nursing Administration Practicum ...6  
 NURS 827, Resource Management in Nursing ...3  
 PHS 834, Financing Health Care Services .....3

*Master of Business Administration Portion* 33 hours  
*Prerequisites* (not included in degree hours)

MATH 111, College Algebra .....(3)  
 MATH 144, Business Calculus .....(3)  
 NURS 531, Nursing and Computer  
 Technology (see nursing above)  
 CESP704, Introduction to Educational  
 Statistics (or equivalent) .....(3)

*Background Fundamentals*

ACCT 800, Financial Accounting .....3  
 ECON 800, Analysis of Economic Theory .....3  
 MIS 874, Management Information Systems ...3  
 MKT 800, Marketing Systems .....3

*Required Courses*

ACCT 801, Managerial Accounting .....3  
 ECON 804, Managerial Economics .....3  
 FIN 850, Managerial Finance .....3  
 MGMT 803, Business Decision Making .....3  
 MGMT 862, Organizational Behavior .....3  
 MGMT 885, Advanced Strategic Management ...3  
 MKT 801, Marketing Management .....3

**Graduate Certificates (Post Master's)**

Registered nurses with master's degrees (MN or MSN) from a nationally accredited master's program may be admitted to a certificate option in the graduate nursing program. Those requesting a clinical program must have a degree with a clinical emphasis. The following options will have prerequisites which must be fulfilled prior to acceptance.

*Acute Care Nurse Practitioner**Graduate Certificate* 15 hours

Course and experience prerequisites may be required.

Contact department for prerequisites.

NURS 839, Acute/Chronic Health Problems of Adults . . . . .	3
NURS 852, Adult Case Management Practicum . . .	3
NURS 855, Management of Acute/Critically Ill . . .	3
NURS 849, Nurse Practitioner Preceptorship . . . .	6

*Nursing and Health Care Systems Administration**Graduate Certificate* 15 hours

Course and experience prerequisites may be required.

Contact department for prerequisites.

NURS 812, Nursing Administration Practicum . . .	6
NURS 827, Resource Management in Nursing . . .	3
Practicum (NURS 776, Health Care Information Systems Practicum; NURS 812, Nursing and Health Care Systems Administration Practicum; or NURS 814, Nursing Education Practicum) . . . . .	3
NURS 863, Capstone Seminar . . . . .	3

*Adult Health and Illness Clinical Nurse Specialist**Graduate Certificate* 12 hours

Course and experience prerequisites may be required.

Contact department for prerequisites.

NURS 808, Advanced Role Practicum . . . . .	3
NURS 834, Adult Nursing Practicum . . . . .	3
NURS 839, Management of Acute/Chronic Health Problems of Adults . . . . .	3
NURS 852, Adult Case Management Practicum . . .	3

*Family Nurse Practitioner**Graduate Certificate* 17 hours

Course and experience prerequisites may be required.

Contact department for prerequisites.

NURS 803, Primary Care I: Management of Common Health Problems . . . . .	3
NURS 804, Primary Care I: Practicum . . . . .	4
NURS 809, Primary Care II: Management of Complex Health Problems . . . . .	3
NURS 810, Primary Care II: Practicum . . . . .	4
NURS 849, Nurse Practitioner Preceptorship . . . .	3

*Neonatal Nurse Practitioner**Graduate Certificate* 20 hours

Course and experience prerequisites may be required.

Contact department for prerequisites.

NURS 815, Neonatal Nursing I . . . . .	4
NURS 861, Neonatal Nursing II . . . . .	4
NURS 862, Neonatal Preceptorship I . . . . .	6
NURS 864, Neonatal Preceptorship II . . . . .	6

*Pediatric Clinical Nurse Specialist**Graduate Certificate* 12 hours

Course and experience prerequisites may be required.

Contact department for prerequisites.

NURS 808, Advanced Role Practicum . . . . .	3
NURS 829, Growth/Development of Children/Families . . . . .	3
NURS 832, Pediatric and/or Women's Health Nursing: Practicum I . . . . .	3
NURS 836, Pediatric and/or Women's Health Nursing: Practicum II . . . . .	3

*Pediatric Nurse Practitioner**Graduate Certificate* 15 hours

Course and experience prerequisites may be required.

Contact department for prerequisites.

NURS 847, Pediatric Primary Care I: Common Problems . . . . .	3
NURS 848, Pediatric Primary Care I: Practicum . . .	3
NURS 857, Pediatric Primary Care II: Complex Issues . . . . .	3
NURS 858, Pediatric Primary Care II: Practicum . .	3
NURS 849, Nurse Practitioner Preceptorship . . . .	3

*Psychiatric/Mental Health Clinical Nurse Specialist**Graduate Certificate* 15 hours

Course and experience prerequisites may be required.

Contact department for prerequisites.

NURS 808, Advanced Role Practicum . . . . .	3
NURS 819, Foundation of Psychiatric/Mental Health Nursing . . . . .	3
NURS 822, Psychiatric/Mental Health Nursing: Practicum I . . . . .	3
NURS 843, Perspectives in Psychiatric/Mental Health Nursing . . . . .	3
NURS 844, Psychiatric/Mental Health Nursing: Practicum II . . . . .	3

**Master of Science in Nursing Degree for ARNPs**

An MSN degree in three Nurse Practitioner (NP) options is offered for those who hold current ARNP certification in the appropriate option.

The degree for ARNPs is offered only in the following options: Family Nurse Practitioner, Neonatal Nurse Practitioner, and Pediatric Nurse Practitioner.

Admission requirements for entrance include the same requirements as the MSN program for those without ARNP certification as well as the following:

- BSN-prepared RN with ARNP certification in the option in which the degree is being sought
- Minimum GPA of 3.000 in undergraduate work
- Prerequisite—a college-level health assessment course
- Pre- or corequisite—an approved statistics course
- Transcript or certification of completion of NP training
- Current ARNP certification in state of residence.

*Family Nurse Practitioner for ARNPs* 30 hours*Core Courses* 18 hours

NURS 703, Scientific Inquiry I . . . . .	3
NURS 705, Scientific Inquiry II . . . . .	3

## NURS 715, Advanced Nursing Practice:

Roles and Issues . . . . .	3
NURS 793, Advanced Pathophysiology . . . . .	3
NURS 795, Applied Drug Therapy . . . . .	3
NURS 805, Health Promotion through the Life Span . . . . .	3

*Scholarship Requirement—Choose one* 6 hours

(1) NURS 821, Thesis . . . . .	6
(2) NURS 823, Scholarly Project . . . . .	3
and	
NURS 851, Clinical Data Management . . . . .	3
and	
Comprehensive Exam	
(3) NURS 851, Clinical Data Management . . . . .	3
and	
Nursing Elective * . . . . .	3
and	
Comprehensive Exam	

\* Suggested electives are listed at the end of this section.

*Practicum* 6 hours

NURS 808, Advanced Role Practicum . . . . .	6
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*Neonatal Nurse Practitioner for ARNPs* 30 hours*Core Courses* 18 hours

NURS 703, Scientific Inquiry I . . . . .	3
NURS 705, Scientific Inquiry II . . . . .	3
NURS 715, Advanced Nursing Practice: Roles and Issues . . . . .	3
NURS 777, Neonatal Physiology . . . . .	3
NURS 789, Neonatal Pharmacology . . . . .	3
NURS 805, Health Promotion through the Life Span . . . . .	3

*Scholarship Requirement—Choose one* 6 hours

(1) NURS 821, Thesis . . . . .	6
(2) NURS 823, Scholarly Project . . . . .	3
and	
NURS 851, Clinical Data Management . . . . .	3
and	
Comprehensive Exam	
(3) NURS 851, Clinical Data Management . . . . .	3
and	
Nursing Elective * . . . . .	3
and	
Comprehensive Exam	

\* Suggested electives are listed at the end of this section

*Practicum* 6 hours

NURS 808 Advanced Role Practicum . . . . .	6
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*Pediatric Nurse Practitioner for ARNPs* 30 hours*Core Courses* 18 hours

NURS 703, Scientific Inquiry I . . . . .	3
NURS 705, Scientific Inquiry II . . . . .	3
NURS 715, Advanced Nursing Practice: Roles and Issues . . . . .	3
NURS 793, Advanced Pathophysiology . . . . .	3
NURS 795, Applied Drug Therapy . . . . .	3
NURS 805, Health Promotion through the Life Span . . . . .	3

<i>Scholarship Requirement</i> —Choose one	6 hours
(1) NURS 821, Thesis . . . . .	.6
(2) NURS 823, Scholarly Project . . . . .	.3
<i>and</i>	
NURS 851, Clinical Data Management . . . . .	.3
<i>and</i>	
Comprehensive Exam	
(3) NURS 851, Clinical Data Management . . . . .	.3
<i>and</i>	
Nursing Elective * . . . . .	.3
<i>and</i>	
Comprehensive Exam	

\* Suggested electives are listed at the end of this section

<i>Practicum</i>	6 hours
NURS 808, Advanced Role Practicum . . . . .	.6

\* The suggested electives for the MSN degree for ARNPs are dependent on the option chosen. Some electives are: NURS 531, Nursing and Computer Technology; NURS 813, Foundations of Nursing Education; NURS 733, Diabetes Mellitus (online); NURS 775, Health Care Information Systems; NURS 720, Human Lactation (online); N 791J, Common Dermatologic Problems in Primary Care (online); N 791L, Acute Low Back Pain (online).

### Courses for Graduate/Undergraduate Credit

**NURS 505. Directed Study in Nursing (1-4).** Elective. Individual study of the various aspects and/or problems of professional nursing. Repeatable. Prerequisite: departmental consent.

**NURS 506. Transcultural Nursing (3).** Transcultural nursing is the provision of nursing care sensitive to the needs of individuals, families, and groups. Since health and illness are strongly influenced by an individual's cultural background, an awareness of the cultural aspects of lifestyle, health beliefs, and health practices enhance nursing assessment and care. Course examines the cultural influences on health and illness in a variety of groups, emphasizing developing more sensitive and effective nursing care. Prerequisites: admission to School of Nursing or instructor's consent.

**NURS 530. Concepts of Loss (3).** Elective. Strategies for helping clients and families cope with broad aspects of loss, from temporary transient illness to death. Includes human response, through the life span, to changed body image, disability and disfigurement, chronic illness, dying, and death. Includes grief and mourning. Open to nonnursing majors.

**NURS 531. Nursing and Computer Technology (3).** Focuses on basic terminology and use of computer software for nursing education, practice, and administration. Opportunity for hands-on experience with microcomputers. Prerequisite: admission to the nursing program or instructor's consent. Previous knowledge of computers or computer technology is not required.

**NURS 543. Women and Health Care (3).** Cross-listed as WOM S 543. Examines the historical development of the

women's health movement, focuses on current issues relevant to women and health care, and explores the roles of women in the health care system and as consumers of health care. Examines self-care practices of women and studies ways to promote positive health practices. Open to nonnursing majors.

**NURS 566. Perspectives on Self-Help Groups (3).** Cross-listed as PSY566 and SC WK 566. Provides an interactive format that constitutes a community resource for health and human service professionals and promotes an interdisciplinary understanding of the nature and diversity of self-help groups for persons with virtually any health problem or personal issue. Reviews contemporary theory and research, explaining the attractiveness and effectiveness of self-help groups. Panels of support group members share their experience with self-help groups on such topics as addiction, cancer and other illnesses, eating disorders, bereavement, mental illness, and parenting.

**NURS 700. Assessment of Pediatric and Adolescent Clients (3).** A theoretical and clinical laboratory experience; students focus on the assessment of pediatric and adolescent clients. Open admission to RN and graduate students.

**NURS 701. Advanced Health Assessment (2).** Designed to assist students to refine history-taking, psychosocial assessment, and physical assessment skills. Focuses on assessment of individuals throughout the life span. Emphasizes detailed health history-taking, differentiation, interpretation, and documentation of normal and abnormal findings. Includes lecture, discussion and demonstration of history-taking, and an integrated physical assessment. Prerequisite: admission to graduate nursing program. Corequisite: NURS 702.

**NURS 702. Advanced Health Assessment Laboratory (1).** Companion course for NURS 701. Apply history-taking and assessment skills within a laboratory setting. Emphasizes differentiation, interpretation, and documentation of normal and abnormal findings. Requires a complete history and physical examination of a client. Prerequisite: admission to graduate nursing program. Corequisite: NURS 701.

**NURS 703. Scientific Inquiry I (3).** Emphasizes the role of theory in scientific inquiry in nursing. Traces the evolution of nursing theory and explores projections for the future. Addresses relationships among theory, research, and practice. Analyzes selected models/frameworks relevant for nursing. Prerequisite: admission to graduate nursing program.

**NURS 704. Health Maintenance of the School-Age Child (3).** Examines and applies major theories, clinical concepts, and research studies related to school health nursing. Open to RN and graduate students.

**NURS 705. Scientific Inquiry II (3).** Builds on NURS 703. Discusses the research process in relationship to concepts, frameworks/theories. Explores various methodological approaches to research. Considers current issues in

nursing research. Demonstrates the research process in a preliminary proposal related to student's practice area. Prerequisite: NURS 703 or departmental consent and admission to graduate nursing program.

**NURS 706. Organization and Management of the School-Health Program (3).** Examines and applies concepts of organization and management to the school-health delivery system. Explores political, economic, and social factors which influence the school-health delivery system. Open to RN and graduate students.

**NURS 707. Alternative and Complementary Health Care (3).** Analyzes the theoretical and empirical basis for various alternative and complementary modalities. Includes an exploration of issues involved with the use of specific modalities within today's health care environment. Research-based discussion focuses on how to best prepare the health care professional to provide guidance to a client and the family to best achieve a physiological, mental, emotional, and spiritual state most responsive to therapeutic interventions. Emphasizes total evaluation and support of health influences on lifestyle, environment, culture, and other cognitive, safety, and affective factors. Open to non-nursing majors.

**NURS 708. School Nurse Practicum (2).** An intensive clinical experience; students analyze, design, implement, and evaluate nursing systems to promote the health of individuals in the school-health delivery system and the broader community system. Open to RN and graduate students.

**NURS 713. Advanced Health Assessment of the Neonate (4).** A developmental and systematic approach to the advanced assessment of physiological, psychological, sociocultural, and developmental aspects of the fetus, mother in the prenatal period, and the neonate is discussed. Builds on basic assessment skills and emphasizes perinatal, genetic, and embryologic factors impacting neonatal development. Explores ways to assess the pregnant woman for problems, the use of special diagnostic tests, and the assessment of the neonate. Requires 40 laboratory/clinical hours, providing opportunities to implement various assessment and diagnostic procedures, complete health histories, perform complete physical examinations, and complete a perinatal history. Prerequisite: admission to NNP track or department consent.

**NURS 715. Advanced Nursing Practice: Roles and Issues (3).** Designed for students preparing for advanced practice. Discusses historical development of advanced practice role; the ethical, legal, political, and economic issues of such a role; and current trends and future directions. Focuses on issues ranging from concerns within the local practice setting to national policy issues related to advanced nursing practice. Prerequisite: admission to graduate nursing program.

**NURS 718. Advanced Technologies (2).** Focuses on application of clinical skills and interpretation of technologies utilized in a variety of clinical settings. Nurse practitioner students practice these skills in laboratory and/or

clinical settings. Prerequisite: admission to one of the NP options and departmental consent. Enrollment is limited.

**NURS 720. Human Lactation (2-3)**. For the graduate student preparing for practice as a lactation consultant. Provides an in-depth focus on the anatomical and physiological basis of lactation and breastfeeding. Explores factors that impact maintenance of health during lactation and clinical decisions for disease prevention. Addresses preparation for lactation consultant certification. Students work on case studies, develop a paper for publication, and take a final examination via the Internet. Open to nonnursing majors. Prerequisite: admission to graduate program.

**NURS 726. Common Dermatological Conditions in Primary Care (1-3)**. Interactive online course guides student through an instructional program with a profile of common dermatological conditions encountered in primary care. Information is presented in brief case scenarios; student identifies the condition. Resource links are available for in-depth study of each condition. For clinical use, patient education links are provided. Cases give the didactic information needed to make clinical decisions. Prerequisite: senior rule or admission to the Graduate School or instructor's consent.

**NURS 727. Low Back Pain (1-3)**. Interactive online course guides students through an instructional program based on the low back pain guidelines from the Agency for Health Care Policy and Research. Case study format stimulates critical thinking. Linked information gives information needed to make clinical decisions. Prerequisite: senior rule or admission to the Graduate School or instructor's consent.

**NURS 733. Diabetes Mellitus Nursing (3)**. Exploration of clinical theories; identifies and studies appropriate nursing systems for clients with diabetes mellitus. Emphasizes attaining and maintaining optimal levels of functioning and the psychological adjustment of the client and family to a potentially devastating disease. Open to nonnursing majors.

**NURS 734. Diabetes Mellitus Nursing Practicum (3)**. An intensive clinical experience; the student studies, designs, and implements nursing systems for individuals or groups in the area of diabetes mellitus nursing management. A weekly one hour seminar accompanies the practicum. Open to nonnursing majors.

**NURS 750. Workshops in Nursing (1-4)**. An opportunity for intensive study of special topics related to nursing practice, education, or research. Open to nonnursing majors.

**NURS 757. Clinical Teaching Strategies (3)**. Explores alternative teaching strategies for the clinical educator to accommodate the changing health care scene. Discusses clinical teaching methods. A clinical rotation plan with accompanying clinical evaluation tool is constructed after the student, subject, and setting are delineated. Investigates roles of the educator in teaching clinically.

**NURS 775. Health Care Information Systems (3)**. Examines information systems as they relate to health care. Analyzes information systems in clinical management, administration, education, and research. Emphasizes issues surrounding information systems and hands-on experience with selected health care information management exercises.

**NURS 776. Health Care Information Systems Practicum (3)**. Provides an individualized opportunity to apply the concepts/theories of information systems to a health care setting. Includes analyzing existing information programs, identifying applications for automation, and undertaking small-scale development efforts. Prerequisite or corequisite: NURS 775.

**NURS 777. Physiology/Pathophysiology of the Neonate (3)**. Uses concepts of embryology, neonatal physiology, and pathophysiology to provide an in-depth study of normal functioning and alteration of normal physiological functioning in cells, tissues, organs, and organ systems. Alterations form the basis for understanding a variety of pathophysiological conditions and the manifestations and impact of abnormal physiological functioning on neonates. Addresses both generalized processes and major system dysfunctions. Prerequisite: admission to NNP track or department consent.

**NURS 781. Pathophysiology for Acute and Critical Care (3)**. Examines pathophysiological concepts relevant to acute and critical care nursing practice. Explores the scientific knowledge base for selected clinical problems in acute care. Emphasizes pathophysiological mechanisms of disease and the relevance to clinical decision making. Prerequisite: admission to graduate program.

**NURS 783. Brain Disorders in Mental Illness: Assessment and Nursing Interventions (3)**. For the student preparing for advanced practice in psychiatric nursing. Considers neurotransmitters, neuroanatomy, neuropathology in the assessment and intervention approaches to the brain disorders of major mental illnesses. Prerequisite: admission to graduate program.

**NURS 786. Advanced Health Assessment Practicum (2)**. A concentrated assessment practicum focusing on application of knowledge from advanced health assessment courses. Students apply history-taking and assessment skills in a specified setting. Emphasizes differentiation, interpretation, and documentation of normal and abnormal findings. Graded S/U. Prerequisites: NURS 701, 702, and departmental consent and admission to one of the NP options.

**NURS 789. Pharmacology for the Neonate (3)**. Discusses pharmacological agents used in the management of neonates. Reviews pharmacologic principles and applies them to the use of drugs in the level II or III NICU. Explores the clinical use of drugs in the management of specific illnesses of the neonate. Stresses legal considerations for the Advanced Practice Nurse. Prerequisites: admission to NNP option or departmental consent.

**NURS 791. Special Studies in Nursing (1-6)**. Students engage in extensive study of particular content and skills directly or indirectly related to nursing practice. Repeatable. Open to graduate or undergraduate students. Prerequisite: departmental consent.

**NURS 793. Advanced Pathophysiology (3)**. Explore in-depth scientific knowledge base relevant to selected pathophysiological states confronted in primary care. This provides the basis for the foundation of clinical decisions related to diagnostic tests and the initiation of therapeutic regimens. Age specific and developmental alterations are correlated with clinical diagnosis and management. Application is made through age appropriate examples. Prerequisites: admission to graduate nursing program and departmental consent.

**NURS 795. Applied Drug Therapy (3)**. Discusses the clinical application of specific categories of drugs commonly encountered in primary care settings. Explains the use of protocols, prescription writing, and the ethical/legal and economic issues surrounding the advanced nurses' role in prescribing and monitoring pharmacologic therapies in the ambulatory setting. Discusses factors such as age appropriate content related to pharmacokinetics, dosages, expected outcomes, and side effects of the drugs. Addresses first line versus second line drugs, alternate drugs, drug interactions, adjusting drug dosages, patient education, and compliance issues related to drug therapy. Explores the nurse's role and responsibility related to data collection, problem identification, and consultation with the physician. Application is made through age appropriate case studies. Prerequisites: admission to graduate nursing program and department consent.

**NURS 796. Nursing Practicum in Special Setting (1-6)**. Opportunity for directed practice in various settings including clinical specialties, nursing administration, nursing education, and consultation. Prerequisite: departmental consent.

**NURS 799. Directed Readings in Nursing (1-2)**. Student engages in critical search of the literature in areas related to the profession and practice of nursing. Prerequisites: departmental consent.

### Courses for Graduate Students Only

**NURS 803. Primary Care I: Management of Common Health Problems through the Life Span (3)**. Focuses on common health problems seen in individuals and families throughout the life span. Stresses applications of current research and theory-based interventions appropriate for management by advanced registered nurse practitioners. Emphasizes strategies and protocols to manage common problems in urban and rural patients, interventions to restore individual and family levels of pre-illness health, and positive behaviors. Prerequisites: all core courses, NURS 718, 786, and admission to the FNP option. Prerequisites or corequisites: NURS 715, 793, and 795. Corequisite: NURS 804.

**NURS 804. Primary Care I: Practicum (4).** Concentrated clinical practicum in a primary care setting that addresses individuals and families throughout the life span within the context of the community. Theory and research used in clinical settings. Emphasizes health promotion, maintenance, and prevention interventions. Prerequisite: admission to the FNP option and NURS 805. Corequisite: NURS 803.

**NURS 805. Health Promotion through the Life Span (3).** Focuses on the wellness of individuals and families through the life span seeking to maintain or improve health and prevent illness. Interventions reflect a preventative framework, enhanced by theory and research that provide an understanding of health and lifestyle behaviors. Prerequisites: NURS 703 and 705 (705 can be concurrent).

**NURS 808. Advanced Role Practicum (3-6).** Prepares the student for advanced nursing practice. An intensive practicum experience; the student works with an advanced nurse practitioner in a selected clinical setting. Emphasizes role development, case management, and analysis of strategies to improve nursing practice. Prerequisites: all core courses, NURS 795 or HS 711, pathophysiology (NURS 781, 783, or 793) and at least 6 hours of a clinical concentration.

**NURS 809. Primary Care II: Management of Complex Health Problems through the Life Span (3).** Focuses on complex problems seen in individuals and families through the life span. Stresses applications of current research and theory-based interventions appropriate for management by advanced registered nurse practitioners. Emphasizes strategies and protocols to manage complex patient problems in urban and rural patients, interventions to restore individual and family levels of pre-illness health, including secondary and tertiary prevention. Prerequisites: NURS 803, 804, and admission to the FNP option. Corequisite: NURS 810.

**NURS 810. Primary Care II: Practicum (4).** Emphasizes assessment and management of common health problems across the life span, based upon knowledge of theory and research. Primary care clients with common conditions affecting major body systems assessed and managed. Weekly seminars focus upon analysis and evaluation of clinical situations and cases. Prerequisite: admission to the FNP option. Corequisite: NURS 809.

**NURS 811. Foundations of Nursing and Health Care Systems Administration (3).** Assists the student in acquiring theoretical knowledge of organizations. Considers current issues and research in nursing and health care systems and its impact on nursing practice. Prerequisites: NURS 703 and 705. Prerequisite or corequisite: NURS 715.

**NURS 812. Nursing and Health Care Systems Administration Practicum (1-6).** Practicum in a health care setting; student, under professional guidance, becomes directly involved in existing leadership, administrative, and management systems. A seminar accompanies the field experience. Types of experience may include roles in nursing education or service, mid-level nursing administration, staff development, or community health. Repeatable with

instructor's consent up to a maximum of 6 hours. Prerequisite or corequisite: NURS 811 or 827.

**NURS 813. Foundations of Nursing Education (3).** Assists the student explore theoretical and practical aspects to curriculum development and teaching of nursing in higher education and continuing education. Prerequisite: NURS 703 and 705. Prerequisite or corequisite: NURS 715.

**NURS 814. Nursing Education Practicum (3 or 6).** Student, under professional guidance, becomes directly involved in clinical and classroom teaching, curriculum development, and participation in other faculty functions in higher education and continuing education. A seminar accompanies the field experience. Prerequisites: departmental consent and NURS 813.

**NURS 815. Neonatal Nursing I (4).** First of two courses that integrate the physiologic, pharmacologic, and assessment skills and principles in determining appropriate care of the ill neonate. Uses current research and evidence-based practices as the course framework. Emphasizes the effects of critical conditions on the growth and development of the neonate, including subsequent chronic health problems and the short and long-term consequences to the child's family. Discusses disorders of the central nervous, pulmonary, and cardiovascular systems. Demonstrates and applies the use of specific interventions and diagnostic procedures in laboratory/clinical settings during 40 hours of required clinical activities. Prerequisites: core courses, NURS 713, 777, and 789.

**NURS 819. Foundations of Psychiatric Mental Health Nursing (3).** Evaluates major theories, clinical concepts, and current research in psychiatric/mental health in relation to formulating a conceptual model for nursing practice. Prerequisites: NURS 701, 702, 703, and 705. Prerequisite or corequisite: NURS 715.

**NURS 821. Thesis (1-6).** Graded *S/U* only. Student, in conjunction with the academic advisor and a three-member thesis committee, designs and conducts a formal research project. Prerequisites: admission to graduate nursing program and departmental consent.

**NURS 822. Psychiatric/Mental Health Nursing: Practicum I (3).** Intensive clinical experience; student plans, implements, and evaluates nurse-therapist strategies with individual clients/patients. A seminar accompanies the practicum. Prerequisite or corequisite: NURS 819.

**NURS 823. Graduate Project: Alternative to Thesis (1-3).** Graded *S/U* only. An opportunity to develop and pursue a scholarly project other than a thesis. This may take the form of a position paper, a historical study, a philosophical paper, or other type project developed in conjunction with the student's faculty advisor. Prerequisites: admission to graduate nursing program, departmental consent, and 12 hours of graduate course work, including NURS 703 and 705. Repeatable up to 6 credit hours.

**NURS 825. Independent Study (1-6).** Provides opportunity for the student to develop, in collaboration with a

school faculty member, objectives and protocol for independent work related to the practice of nursing. Prerequisites: admission to graduate nursing program and departmental consent.

**NURS 827. Resource Management in Nursing (3).** Focuses on the assessment and management of resources necessary to operate nursing and health care systems including informational systems needed to manage resources; budget process management; personnel management from recruitment through termination, including staffing and scheduling; and management of relationships with patients, physicians, and diverse departments with different philosophies and views. Prerequisites: NURS 703 and 705. Prerequisite or corequisite: NURS 715.

**NURS 829. Health Care during Growth and Development of Children and Families (1-4).** Focuses on physical and psychosocial developmental changes from infancy through young adulthood. Considers factors that facilitate or interfere with healthy development. Provides an introduction to family theories including family development, family systems, and family stress. Emphasizes the role of the Advanced Practice Nurse in assisting children and families during the developmental years. Modular format allows students to select specific units: Unit One: Growth and Development: The Infant and Young Child (1 credit); Unit Two: Growth and Development: The Adolescent and Young Adult (1 credit); Unit Three: Family Issues: Part I and II (1 credit each). Prerequisites: NURS 703 and 705.

**NURS 832. Pediatric and/or Women's Health Nursing: Practicum I (3).** 9P. An intensive clinical experience; student focuses on the process of systematic developmental, psychosocial, and health assessment of individuals within a family system. Experiences based on the student's clinical interests. Prerequisite: all core courses. Prerequisite or corequisite: NURS 829.

**NURS 834. Adult Nursing Practicum (3).** An intensive clinical experience; student designs, implements, and evaluates nursing care for adults. Selects specialized areas of study; may involve health maintenance or illness care of acutely or chronically ill adults. Prerequisites: all core courses, NURS 781 and 805, and HS 711. Prerequisite or corequisite: NURS 839.

**NURS 836. Pediatric and/or Women's Health Nursing: Practicum II (3).** An intensive clinical experience; student analyzes, prioritizes, and designs therapeutic interventions in the management of common health problems affecting individuals and family systems. Experiences based on the student's clinical interests. Prerequisites: all core courses and NURS 805. Prerequisite or corequisite: NURS 853.

**NURS 839. Management of Acute and Chronic Health Problems of the Adult (3).** Examines clinical concepts and issues related to major disruptions in the health status of adults. Emphasizes assessment, measurement, and interventions related to acute and chronic health problems. Prerequisites: all core courses, NURS 781 and 805, and HS 711.

**NURS 843. Perspectives in Psychiatric/Mental Health Nursing (3).** A critical examination of the delivery of mental health nursing. Emphasizes practitioner roles and therapeutic nursing modalities. Analyzes the effect of historical, social, political, economic, and ethical-legal factors. Prerequisite: NURS 819. Corequisite: NURS 844.

**NURS 844. Psychiatric/Mental Health Nursing Practicum II (3).** An intensive clinical experience; student analyzes group processes and dynamics, initiates and evaluates therapeutic strategies. Prerequisites: NURS 819 and 822. Corequisite: NURS 843.

**NURS 847. Pediatric Primary Care I: Management of Common Health Issues (3).** Focuses on comprehensive assessment, diagnosis, and management of health and common health problems seen in children and families during the infant, childhood, and adolescent years. Stresses applications of current research and theory-based interventions appropriate for management by Advanced Registered Nurse Practitioners. Emphasizes strategies and protocols to manage common problems in urban and rural patients, interventions to restore children's and family's levels of pre-illness health, and positive behaviors. Prerequisites: NURS 701, 702, 703, 705, 718, 786, 829, and admission to the PNP option. Prerequisites or corequisites: NURS 715, 793, and 805.

**NURS 848. Pediatric Primary Care I Practicum: Clinical Management of Common Health Issues (3).** Concentrated clinical practicum in a primary care setting that addresses individuals and families during the infant, childhood, and adolescent age span, within the context of the community. Emphasizes history-taking; cultural, developmental, nutritional, and physical assessment; and documentation skills. Seminars focus on analysis and evaluation of clinical situations. Prerequisite: admission to the PNP option. Prerequisite or corequisite: NURS 847.

**NURS 849. Nurse Practitioner Preceptorship (3 or 6).** A concentrated clinical practicum in an acute or primary health care setting that emphasizes the management of care for individuals. Students synthesize concepts and principles from previous classes and clinical experiences, applying theoretical and research content to acute, chronic, urgent, and/or common health problems. Preceptorship is in a clinical agency appropriate to the student's clinical interests. Prerequisites: departmental consent and admission to one of the NPOptions.

**NURS 851. Clinical Management (3).** Management of clinical data and analysis of professional issues including business skills necessary for advanced nursing practice. Students use existing data to determine health care outcomes and to evaluate delivery of care. Extensive computer use in laboratory setting with technical support. Prerequisites: all core courses. Prerequisite or corequisite: enrollment in a course within the student's clinical or administration option. Computer literacy is expected.

**NURS 852. Adult Case Management Practicum (3).** Applies case management principles in this intensive clinical

experience as the student designs, implements, and evaluates nursing care for adults. Emphasizes measuring clinical outcomes and management of resources. Prerequisites: all core courses, NURS 781, and HS 711. Prerequisite or corequisite: NURS 805 or 839.

**NURS 853. Reproductive Health of Women (3).** Examines women's health issues and promotes positive self-care practices for common health problems. Includes epidemiology, assessment data, diagnostic methods, and self-care interventions. Encompasses health education and counseling to women during the life cycle and health care resources for women's health. Prerequisites: all core courses and NURS 829 and 832.

**NURS 855. Management of the Acutely and Critically Ill Adult (3).** Examines advanced nursing interventions focused on client stabilization and management of complications in the acutely/critically ill adult. Emphasizes the management of the adult with complex health problems. Interventions focus on application of advanced practice nursing care to the restoration of health/well-being. Prerequisites: NURS 805, 834, 839, 852, admission to the ACNP option, and departmental consent.

**NURS 857. Pediatric Primary Care II: Management of Common Health Issues (3).** Focuses on health promotion, health maintenance, and risk reduction for children and adolescents with special health care needs. Emphasizes comprehensive assessment, diagnosis, and management of health, developmental, and chronic health problems within a family and developmental framework. Considers children with developmental and learning disabilities and children with selected complex and chronic health problems. Emphasizes the collaborative and interdisciplinary nature of a child's care in school and other settings. Addresses the unique needs of children in underserved communities. Stresses applications of current research and theory-based interventions appropriate for management by advanced registered nurse practitioners. Emphasizes strategies and protocols to manage complex patient problems in urban and rural patients and interventions to restore children's and family levels of pre-illness health, including secondary and tertiary prevention. Prerequisites: NURS 847 and 848.

**NURS 858. Pediatric Primary Care II Practicum: Clinical Management of Common Health Issues (3).** A concentrated clinical practicum that emphasizes assessment and management of health promotion, health maintenance, and risk reduction for children and adolescents with special health care needs. Emphasizes comprehensive assessment, diagnosis, and management of health, developmental, and chronic health problems within a family and developmental framework. Includes children with developmental and learning disabilities and children with select complex and chronic health problems. Seminars focus on analysis and evaluation of clinical situations and cases. Prerequisite or corequisite: NURS 857.

**NURS 859. Pediatric Primary Care III: Advanced Health Care for School Nurse Practitioners (3).** This multidisciplinary course builds upon the dimensions of

assessment and health care for children and adolescents in a family and community framework and provides a foundation for advanced practice in school health from the perspectives of educators and health care providers. Focuses on major contemporary issues that affect the health and education of children and adolescents in the school community. Considers theories, models, and concepts from education, public health, and nursing as they relate to schools. Focuses on the link between health and education. Examines political, sociological, economic, and environmental factors, as well as major causes of morbidity and mortality. Special emphasis on cultural diversity and vulnerable and underserved populations-at-risk and strategies that enhance learning and health promotion. Prerequisites: previous courses in the PNP specialization or departmental consent.

**NURS 860. Pediatric Primary Care III Practicum: School Health Practicum (3).** A clinical course to prepare the student for advanced practice as a Pediatric/School Nurse Practitioner. Focuses on the health promotion, health maintenance, and risk reduction for children and adolescents with special health care needs, and the assessment and management of health and developmental problems within a family and developmental framework. Considers children with developmental and learning disabilities and children with select complex and chronic health problems. Emphasizes the collaborative and interdisciplinary nature of a child's care in a school setting. Addresses the unique needs of children in underserved communities. Prerequisite or corequisite: NURS 859.

**NURS 861. Neonatal Nursing II (4).** Second of two courses that integrate the physiologic, pharmacologic, and assessment skills and principles in determining appropriate care of the ill neonate. Uses current research and evidence-based practices as course framework. Emphasizes the effects of critical conditions on the growth and development of the neonate, including subsequent chronic health problems as well as the short- and long-term consequences to the child's family. Discusses disorders of the gastrointestinal, renal, endocrine, hematologic, musculoskeletal, ophthalmologic, dermatologic, and immune systems. The use of specific interventions and diagnostic procedures are demonstrated and applied in laboratory/clinical settings during 40 hours of required clinical activities. Prerequisites: core courses, NURS 713, 777, and 789.

**NURS 862. Neonatal Nurse Practitioner Preceptorship I (6).** First of two preceptorship experiences which can be taken concurrently or in consecutive semesters; there will be a minimum of 300 clinical hours. Provides opportunities to apply knowledge and skills from advanced nursing role, theory, research, and neonatal clinical courses to the advanced therapeutic management of high risk neonates. Emphasizes therapeutic measures within a conceptual framework or model and applies findings from research relevant to comprehensive care of neonates. The client system is the neonate and family. Prerequisites: NURS 815 and 861.

**NURS 863. Nursing and Health Care Systems Administration: Capstone Seminar (3).** Assists the student to

integrate knowledge from nursing and administration courses to develop the individual's own management/administration practice. Utilizes a seminar approach with case studies, student presentations, and presentations by executives and other experts from the community. Prerequisites: NURS 703, 705, 715, 775, 811, 812 (3 hours), 827; PHS 834 or 442; and MKT 812 or PHS 638. Corequisites: NURS 812 and 851.

**NURS 864. Neonatal Nurse Practitioner Preceptorship II (6).** Second of two preceptorship experiences which can be taken concurrently or in consecutive semesters. There will be a minimum of 300 clinical hours. Provides opportunities to build upon knowledge and skills gained during NURS 862 regarding the advanced therapeutic management of high risk neonates. Emphasizes therapeutic measure within a conceptual framework or model and applying findings from research relevant to comprehensive care of

neonates. The client system is the neonate and family. Prerequisites: NURS 815 and 861. Prerequisite or corequisite: NURS 862.

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The following abbreviations are used in the course descriptions: R stands for lecture and L for laboratory. For example, 4R; 2L means 4 hours of lecture and 2 hours of lab. P stands for practicum/clinical hours; 40P means 40 hours of practicum per week.