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DIPLOMA IN PRACTICAL NURSING COURSE DESCRIPTIONS

BI 222 Basic Anatomy & Physiology

Four semester hours

(Three credit hours class; one credit hour lab) Basic Anatomy & Physiology is designed to learn important concepts about human anatomy and physiology in preparation for their degree course work. This course is an essential foundation. There are no prerequisites for the course.

NUR 100 Drug Calculations

One semester hour

This course provides the student with the knowledge and skills for accurate medication. An in-depth review of basic math is provided. The student will learn systems of measurement, conversion within and between systems and dosage calculations. The concepts of caring, client-centered care, teamwork and collaboration, professionalism, evidence-based practice and quality improvement are discussed in relation to the practical nurses role in medication administration.

Prerequisite: NUR 101.

Co-requisite: NUR 110 and BI 122.

NUR 101 Introduction to Practical Nursing

Two semester hours

This course presents introductory concepts for the practical nurse. The course emphasizes the accountability and responsibility of practical nurse caring consistent with the code of ethics. The concepts of caring, client-centered care, teamwork and collaboration, evidence-based nursing practice, quality improvement, safety, informatics and professionalism are introduced.

Co-requisite: BI 222.

NUR 110 Practical Nurse Caring with Adults I

Six semester hours

This course expands on the concepts of caring, client-centered care, teamwork and collaboration, evidence-based nursing practice, quality improvement, safety, informatics and professionalism. As a member of the health care team, the student applies the nursing process to care for the adult/geriatric client utilizing basic practical nursing skills within a nurse caring framework. The basic principles of pharmacology are introduced as the student learns the role of practical nurse in administering medications to the adult/geriatric client.

Prerequisites: NUR 101 and BI 222.

Co-requisites: NUR 100 and BI 122.

NUR 122 Health Care of Women: Normal and Common Variations

Five semester hours

(Three credit hours class; two credit hours clinical lab) This course presents maternity concepts from conception through postpartum and neonatal periods, focusing on normal and common variations. Family, cultural and environmental influences are included. Basic principles of pharmacology, drug administration and pathophysiology relevant to childbearing are learned. As a member of the health care team, the student provides care for the mother and baby. The student uses the nursing process and assists the licensed professional by collecting, reporting and recording pertinent data. Basic nursing skills relevant to the care of women are learned.

Prerequisite: NUR 110.

NUR 130 Practical Nurse Caring with Adults II

Nine semester hours

(Four credit hours class; one credit hour skills lab; four credit hours clinical lab) This course presents concepts related to the practical nurse caring for adults across the lifespan with acute and chronic medical conditions. The concepts of caring, client-centered care, teamwork and collaboration, evidence-based nursing practice, quality improvement, safety, informatics and professionalism are expanded. This course builds upon the student's knowledge of basic nursing skills and normal anatomy and physiology. Pathophysiology of disease conditions is introduced. The principles of pharmacology, gerontology and mental health are integrated through the course.

Prerequisites: NUR 110, NUR 101, NUR 110, BI 122 and BI 222.

NUR 135 Practical Nurse Caring for Women and Children

Six semester hours

This course presents concepts of family-centered health care of women and children. The course addresses the care of women from child-bearing age through menopause and children from conception through adolescence. The student gains knowledge and skills in caring for women and children in a variety of settings incorporating safety, teamwork, informatics and professionalism. The student will assist the licensed professional by collection reporting and recording data utilizing the nursing process in providing client-centered care. The basic principles of pharmacology, drug administration, pathophysiology, and growth and development are integrated throughout this course.

Prerequisites: NUR 100, NUR 101, NUR 130, BI 122 and BI 222.

Co-requisite: PY 200.

NUR 142 Practical Nurse Caring with Adults III

Four semester hours

(Two credit hours class; two credit hours clinical lab) This course presents concepts of caring, client-centered care, teamwork and collaboration and safety for the practical nurse caring for adults with acute and chronic health problems and uncomplicated surgical procedures. Pathophysiology, pharmacology, nutrition, mental health and gerontology concepts are integrated throughout the course. Critical thinking and therapeutic nursing interventions are emphasized, utilizing best current evidence in the planning of care for adults in the acute, sub-acute and/or extended care setting. Behaviors that support a professional caring relationship is explored.

Prerequisites: NUR 110, NUR 101, NUR 110, NUR 130, NUR 135, BI 222, BI 122 and PY 200.

NUR 150 Practical Nurse Caring with Infants, Children and Adolescents

Four semester hours

(Two credit hours class; two credit hours clinical lab) This course provides a foundation in family-centered health care of children. The term child/children will include the infant through adolescent. The concept of family-centered nursing care will be addressed. The practical nursing student will gain knowledge and skill in caring for children in selected hospital and community settings, incorporating safety, respect and cultural sensitivity. Growth and development, communication and behavioral interventions, pathophysiology of selected disease states/illnesses and pharmacology of selected drug groups will be integrated throughout the course. The nursing process and nurse caring conceptual model will provide the framework for this course.

Prerequisites: *NUR 110, NUR 122 and NUR 130.*

NUR 161 Practical Nurse Caring with Adults IV

Six semester hours

(Three credit hours class; three credit hours clinical lab) This course expands on the nursing concepts of quality and safety with a caring and holistic approach. This course presents concepts relevant to acute/chronic multisystem disorders for patients in a variety of settings. Basic principles of leadership/management and the role of the LPN are introduced. As a member of the interdisciplinary team, the student coordinates and manages the care of clients in a variety of health care settings utilizing informatics and an evidence-based approach to promote quality patient outcomes.

Prerequisites: *NUR 110, NUR 101, NUR 110, NUR 130, NUR 135, NUR 142, BI 222, BI 122 and PY 200.*

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BACHELOR OF SCIENCE IN NURSING COURSE DESCRIPTIONS

NS 115 Introduction to Concepts of Caring

Two semester hours

This course is designed to introduce professional nursing concepts of quality and safety with a caring, holistic approach. The student is introduced to the professional knowledge, skills and attitudes essential to the development of nursing competencies when providing client-centered care in a safe, quality and interdisciplinary environment that uses informatics and an evidenced-based approach to promote quality outcomes.

Prerequisites: BI 211 and CH 110.

NS 125 Foundational Skills and Assessment of the Adult: Theory

Three semester hours

The student will apply the basic concepts of anatomy and chemistry when performing nursing skills including assessment of the adult. The student will learn the fundamentals of safety to minimize risk of harm to clients and health care providers as it applies to evidence-based, client-centered care in a variety of health care environments. Students will be able to define behaviors that support a professional, caring relationship.

Prerequisites: BI 211 and CH 110.

Co-requisite: NS 126.

NS 126 Foundational Skills and Assessment of the Adult: Clinical

Two semester hours

Students will perform foundational nursing and assessment skills in the care of the adult. The student will demonstrate the fundamentals of safety to minimize risk of harm to clients and health care providers as it applies to evidence-based, client-centered care in a variety of health care environments. Students will practice behaviors that support a professional, caring relationship.

Prerequisites: BI 211 and CH 110.

Co-requisite: NS 125.

NS 128 Population Health I

One semester hour

The student will be introduced to the broad concepts of public health practice including its historic development, principles and core functions, the role of health policy and collaborative teamwork of public health agencies. Theoretical and practical perspectives illustrating the determinants of health will be explored at the local, state and national level. This course is designed as the first of four level courses in exploration of population health.

Prerequisites: BI 211 and CH 110.

Co-requisite: First level nursing courses.

NS 201 Introduction to the Care of the Oncology Patient

Two semester hours

This course introduces students to oncology and the client-centered care of patients with cancer. An emphasis will be placed on evidence-based symptom management and the interdisciplinary role of the healthcare team in the care of cancer patients with solid organ and hematological cancers. This is an elective course for a student considering an oncology specialty.

NS 233 Assessment and Care of the Adult with Abnormal Findings: Theory

Two semester hours

The student relate to the basic techniques of assessment to abnormal disease findings in the adult client. The student will explain principles pathophysiology and pharmacology in

relation to acute and chronic health problems. Students will describe the concept of client-centered care with a focus on quality improvement and safety while utilizing professionalism.

Prerequisites: BI 211, BI 213, BI 210, CH 110 and all 100-level nursing courses.

Co-requisite: NS 234, NS 235.

NS 234 Assessment and Care of the Adult with Abnormal Findings: Clinical
Two semester hours

The student will apply assessment techniques with identification of abnormal findings as they relate to disease processes in the adult client. The student will demonstrate the professional caring nurse role with an emphasis on safety and client-centered care. Students will utilize the nursing process and technology to support teamwork and collaboration in clinical decision making.

Prerequisites: BI 211, BI 213, BI 210, CH 110 and all 100-level nursing courses.

Co-requisite: NS 233.

NS 235 Pharmacology I

Two semester hours

The student will apply the basic concepts of anatomy, physiology and chemistry in the administration of pharmacologic agents. The student will recognize standard practices and technologies related to medication safety to minimize the risk of harm and maximize the benefit to the client. Students will be able to accurately calculate drug dosages and interpret data to monitor the outcomes of pharmacologic interventions.

Prerequisites: BI 211, CH 110 and MA 101.

Co-requisite: NS 233, NS 234, BI 227.

NS 254 Managing the Nursing Care of the Adult: Theory

Four semester hours

The student will build upon previous knowledge of pathophysiology, pharmacology and assessment skills in the provision of safe, holistic care of the adult client with acute and chronic illnesses. Emphasis will be placed on the use of informatics, teamwork and collaboration as well as evidence-based practice related to quality health outcomes.

Prerequisites: All 100-level nursing courses. NS 233, NS 234, NS 235 and BI 227.

Co-requisite: NS 255, NS 256.

NS 255 Managing the Nursing Care of the Adult: Clinical

Four semester hours

The student will apply previous knowledge of pathophysiology, pharmacology and assessment skills in the delivery of safe, holistic care of the adult client with acute and chronic illnesses. In the professional nurse role, the student will demonstrate the use of informatics, teamwork and collaboration as well as evidence-based practice related to quality health outcomes.

Prerequisites: All 100-level nursing courses. NS 233, NS 234, NS 235 and BI 227.

Co-requisite: NS 254, NS 256.

NS 256 Pharmacology II**Two semester hours**

The student will explain the basic concepts of anatomy, physiology and chemistry while building on the pharmacologic principles from Pharmacology I in the administration of pharmacologic agents. The student will recognize standardized practices and technologies related to medication safety to minimize the risk of harm and maximize the benefit to the client. Students will be able to accurately calculate drug dosages and interpret data to monitor the outcomes of pharmacologic interventions.

Prerequisites: BI 211, BI 213, BI 210, CH 110, NS 235 and all 100-level nursing courses.

Co-requisite: NS 254, NS 255.

NS 257 Population Health II**One semester hour**

The student will utilize knowledge of community-based nursing and public health policy as it relates to care of the client. The student will distinguish the role of social, behavioral and environmental determinants on the health status of individuals and groups with diverse populations and environments. The student will determine factors which create a culture of safety and explore ethical and legal implications for client-centered care. This course is designed as the second of four level courses in exploration of population health.

Prerequisites: All 100-level nursing courses.

NS 309 Scientific Investigation in Health Care**Three semester hours**

(Three hours of theory per week) This course focuses on scientific investigation as an integral component of health care. Explores and analyzes the processes utilized in planning, conducting, and communicating the various methods of inquiry and modes of communication employed in health care investigation. Knowledge and skills necessary for analysis of theoretical and technical aspects of scientific investigation are analyzed.

Prerequisites: All 100-level nursing courses. BI 227, NS 200, NS 206, NS 230, NS 231 and ST 310 or equivalent.

NS 330 Professional Nurse Caring-Mental Health: Theory**Three semester hours**

(Three hours of theory per week) Theories and concepts used to provide nursing care for persons with psychiatric/mental health concerns within institutional and community-based settings are the focus of this course. Emphasis is placed on the integration of psychopathological processes with psychosocial assessment, therapeutic communication and nursing interventions.

Prerequisites: All 100- and 200-level nursing courses, PY 101.

Co-requisite: NS 331.

NS 331 Professional Nurse Caring-Mental Health: Clinical Application**Four semester hours**

(180 hours of clinical per semester) Emphasis is placed on the student's ability to assess and assist both individuals and families of diverse backgrounds in coping with acute/chronic mental health conditions in a variety of institutional and community settings. Group process issues will be explored. This course stresses personal growth through self-reflection.

Prerequisites: All 100- and 200-level nursing courses, PY 101.

Co-requisite: NS 330.

NS 340 Behavioral Health Continuum of Care: Theory**Three semester hours**

The student will build upon previous knowledge of pharmacology, assessment and therapeutic communication skills. Theories and concepts related to acute, chronic illnesses and behaviors along the mental health continuum are introduced. Emphasis is placed on safe, evidence-based, caring and collaborative care, impacting the individual, families and groups.

Prerequisites: All 100- and 200-level nursing courses. PY 101.

Co-requisite: NS 341.

NS 341 Behavioral Health Continuum of Care: Clinical**Three semester hours**

The student will apply theories and concepts related to caring, holistic, behavioral health of individuals, families and groups across the lifespan in a variety of settings. Students will collaborate with agency and community partners to enhance safe, evidence-based quality care.

Prerequisites: All 100- and 200-level nursing courses. PY 101.

Co-requisite: NS 340.

NS 342 Nursing Care of Women and Child-Bearing Families: Theory**Three semester hours**

The student will be introduced to health promotion and family-centered nursing care for women and the childbearing family. Students will build upon previous knowledge to provide safe and evidence-based, interdisciplinary care of women and childbearing families.

Prerequisites: All 100- and 200-level nursing courses. NS 340, NS 341 and PY 200.

Co-requisite: NS 343.

NS 343 Nursing Care of Women and Child-Bearing Families: Clinical**Two semester hours**

Students will apply the nursing process and theoretical concepts related to safe, evidence-based, interdisciplinary care of women and childbearing families in a variety of settings.

Prerequisites: All 100- and 200-level nursing courses. NS 340, NS 341 and PY 200.

Co-requisite: NS 342.

NS 344 Family-Centered Nursing Care of Children: Theory**Three semester hours**

The student will be introduced to family-centered nursing care of children, including the normal progression of child growth and development, anticipatory guidance for parents, and acute and chronic health problems in the pediatric population. An emphasis will be placed on quality, safety and evidence-based practice in the provision of professional nursing care.

Prerequisites: All 100- and 200-level nursing courses. NS 340, NS 341 and PY 200.

Co-requisite: NS 345.

NS 345 Family-Centered Nursing Care of Children: Clinical**Two semester hours**

The student will employ evidence-based principles of family-centered nursing care of the well child and children with acute and chronic health problems. The student will participate in teamwork and collaboration to promote shared decision making for safe delivery of health care.

Prerequisites: All 100- and 200-level nursing courses. NS 340, NS 341 and PY 200.

Co-requisite: NS 344.

NS 346 Evidence-Based Inquiry in Health Care

Two semester hours

The student will learn how to ask clinical questions in PICOT format and to search common databases. The student develops the skill of critical appraisal of published research. Emphasis will be placed on how practice can be changed by the use of evidence-based guidelines and quality improvement processes.

Prerequisites: All 100- and 200-level nursing courses. BI 227, ST 310.

NS 347 Population Health III

One semester hour

The student will identify health disparities affecting the health of populations that influence the nursing plan of care. The student will examine the significance of public health program planning in addressing global health issues. The student will analyze quality improvement factors that support safety, quality care and the use of informatics. This course is designed as the third of four level courses in exploration of population health.

Prerequisite: All 100- and 200-level nursing courses.

NS 348 Population Health for the RN to BSN/MSN

Two semester hours

The student will be introduced to the broad concepts of public health practice including its historic development, principles, core functions, the role of policy and collaborative teamwork of public health agencies. Theoretical and practical perspectives illustrating the determinants of public health will be explored at the local, state and national level. The student will exam the significance of public health program planning in addressing global health issues and analyze quality improvement factors which support the use of informatics, safety and quality care.

Prerequisite: Current unencumbered RN license.

NS 349 Pathways for Success

One semester hour

The student will be provided a pathway for the transition to BSN and MSN programs at Clarkson College. Students will learn how to effectively write scholarly papers, both in terms of format and APA style. This course serves as an orientation to the various departments and services at the College and its online course delivery platform.

Prerequisite: Current unencumbered LPN or RN license.

Graded: Pass/No Pass.

NS 350 Professional Nurse Caring with Adults II: Theory

Four semester hours

(Four hours of theory per week) Professional nurse caring behaviors will be integrated throughout the course with the provision of holistic nursing care of adults with health problems in various acute settings. Critical thinking and therapeutic nursing intervention strategies for individuals experiencing high risk, unstable and critical conditions are emphasized. Standards of care are followed with prioritization of client health needs. The implications of legal and ethical issues are presented.

Prerequisites: All 100- and 200-level nursing courses, NS 330 and NS 331.

Co-requisite: NS 351.

NS 351 Professional Nurse Caring with Adults II: Clinical Application

Four semester hours

(180 hours of clinical per semester) Professional nurse caring will be integrated into holistic nursing care of adults with health problems in various acute care settings. Emphasis is on

the individual's and family's response to critical conditions. Therapeutic nursing interventions are aimed at promotion, maintenance and restoration of health.

Prerequisites: All 100- and 200-level nursing courses, NS 330 and NS 331.

Co-requisite: NS 350.

NS 355 Concepts of Professional Practice for the LPN to BSN

Three semester hours

Students will explore professional nursing concepts specific to the transition from the LPN role to the baccalaureate-prepared nurse and quality along with safety education for nurses. Specific emphasis will be placed on nursing theory and the concepts of evidence based practice, quality improvement, caring, teamwork, collaboration and client-centered care.

Prerequisite: Current unencumbered LPN license.

NS 356 Concepts of Professional Practice for the RN to BSN/MSN

Three semester hours

Students will explore professional nursing concepts specific to the baccalaureate-prepared nurse and quality and safety education for nurses. Specific emphasis will be placed on nursing theory and the concepts of evidence based practice, quality improvement, caring, teamwork, collaboration and client-centered care.

Prerequisite: Current unencumbered RN license.

NS 357 Physical Assessment

Three semester hours

The student will validate areas of assessment expertise and further develop clinical assessment and critical thinking skills. Specific emphasis is placed on evidence-based assessment techniques for each of the body systems, critical thinking skills, safety and client-centered care practices.

Prerequisite: Current unencumbered LPN or RN license.

NS 410 Professional Nurse Caring Seminar III

One semester hour

(Two hours of clinical per week) This seminar will provide students the opportunity to correlate conceptual components of the nursing curriculum to nursing practice. Students will explore political, legal and economic concerns relating to the management and leadership role of the nurse in today's rapidly changing health care system. A series of structured exercises, followed by student-led forums, will emphasize scholarship and excellence. This will facilitate students' understanding of the identification of professional nurse caring behaviors in the delivery of holistic health care. Evidence-based practice is used in the process of critical thinking as applied to health care issues. The professional portfolio will be completed,

demonstrating the integration of program competencies and professional practice.

Prerequisites: All 100- 200- and 300-level nursing courses. NS 430, NS 431, NS 440 and NS 441.

Co-requisites: NS 460 and NS 465.

NS 430 Professional Nurse Caring with Families: Theory

Two semester hours

(Two hours of theory per week) Students are introduced to the concept of family-focused nursing care throughout the lifespan. Students develop a theoretical base in models of family health promotion, process and role structure, family development, sociocultural assessment, communication patterns, coping processes and cultural diversity among families. Family diagnosis and interventions are emphasized. Issues related to health care for people of all ages in home, school, occupational and community settings are explored.

The home care system, role of the home care nurse and case management are examined in the managed care environment.

Prerequisites: All 100- 200- and 300-level nursing courses.

Co-requisite: NS 431.

NS 431 Professional Nurse Caring with Families: Clinical Application

Two semester hours

(90 hours of clinical per semester) This course focuses on the role of the home care nurse in applying the theories of family-focused care throughout the lifespan. Students will experience the clinical roles related to family health promotion and chronic disease management in the home setting. Case management and analysis of the models in home care systems will be explored.

Prerequisites: All 100- 200- and 300-level nursing courses.

Co-requisite: NS 430.

NS 440 Professional Nurse Caring with Maternal Child Health: Theory

Four semester hours

(Four hours of theory per week) The childbearing/child rearing family is the focal point of this course, including the normal progression of pregnancy, delivery and postpartum care. Theories and concepts used to provide nursing care for infants, children, adolescents and their families within institutional and community settings are also included. Women's health issues are discussed within the context of the family and community.

Prerequisites: All 100- 200- and 300-level nursing courses, PY 200 or its equivalent.

Co-requisite: NS 441.

NS 441 Professional Nurse Caring with Maternal Child Health:

Clinical Application

Four semester hours

(180 hours of clinical per semester) The focus of this course is the application of theories and concepts related to the care of the childbearing/child rearing family. Care of families in a variety of clinical settings, including clinics and home care, is emphasized.

Prerequisites: All 100- 200- and 300-level nursing courses, PY 200 or its equivalent.

Co-requisite: NS 440.

NS 450 Professional Nurse Caring in Public Health: Theory

Two semester hours

(Two hours of theory per week) Students are introduced to the concepts of public health science aimed at promoting, preserving and protecting the health of populations as a whole. Students develop a theoretical base in community health diagnosis, epidemiology, bio-statistics, communicable and non-communicable disease control, environmental health, social and behavioral health determinants, group process, health education, public health program planning and evaluation, ethics and public health policy. Students will examine the use of politics, legislation and professional organizations as appropriate public health nursing interventions aimed at resolving the special health needs of population aggregates.

Prerequisites: All 100- 200- and 300-level nursing courses. NS 430, NS 431, NS 440 and NS 441.

Co-requisite: NS 451.

NS 451 Professional Nurse Caring in Public Health: Clinical Application

Two semester hours

(90 hours of clinical per semester) This course focuses on the nurses' role in disease prevention and health promotion related to population aggregates and the community as a whole. Students will experience clinical roles related to public health nursing, epidemiology,

environmental health, community organizations, legislative activity in the American Nurses Association, utilization of community resources, community health care policy, program planning and evaluation.

Prerequisites: All 100- 200- and 300-level nursing courses, NS 430, NS 431, NS 440 and NS 441.

Co-requisite: NS 450.

**NS 460 Professional Nurse Caring in People with Multi-System Disorders: Theory
Four semester hours**

(Three hours of theory per week) The student will analyze the effectiveness of his/her own professional nurse caring behaviors in provision of holistic health care to adults. Various health care systems and health problems of individuals, families, groups and communities of diverse cultures will be evaluated. The focus will be collaboration with professional multidisciplinary health teams. The effectiveness of therapeutic nursing interventions will be evaluated. Application of critical thinking skills to the nursing process will enable the student to act as a change agent in various complex clinical situations.

Prerequisites: All 100- 200- and 300-level nursing courses. NS 430, NS 431, NS 440 and NS 441.

Co-requisites: NS 410 and NS 465.

**NS 464 Professional Nurse Leadership and Management: Theory
Three semester hours**

(Three hours of theory per week) Professional nurse leadership and management theories will be explored. Leadership styles and their impact on health care delivery will be examined. The various functions of management will be reviewed. In the role of manager/leader, the student will devise strategies that plan, direct, delegate, evaluate and implement. The focus is on scholarly activities to emphasize increased understanding of the influence of professional nurse caring behaviors within an organizational structure. The promotion of evidence-based practice using interpersonal and therapeutic communication skills will enhance the articulation of global health care issues.

Prerequisites: All 100- and 200 level nursing courses.

**NS 465 Professional Nurse Leadership and Management of People with Multi-System Disorders: Clinical Application
Four semester hours**

(180 clinical hours per semester) Professional nurse leadership and management of people with multi-system disorders will facilitate the integration of organizational theories to clinical practice. Analysis of complex needs of diverse peoples in various environments and cultures will be critiqued. The focus is the independent performance of professional competencies under the guidance of a clinical preceptor in multiple settings in the transition from student to professional practitioner. This course is considered the clinical capstone of the nursing program.

Prerequisites: All 100, 200, 300 level nursing courses and NS 430, 431, 440 and 441.

Co-requisites: NS 460 and NS 410.

**NS 466 Professional Nurse Leadership Management: Clinical Application
Four semester hours**

(180 clinical hours per semester) In this clinical course, the RN to BSN student applies management and leadership theories in actual health care situations, enacting the nurse manager/leader role using different managerial and leadership strategies to experience the advantages and disadvantages of each.

Prerequisite: Advanced placement RN students only.

NS 467 Transition into Practice**One semester hour**

The student will prepare for the transition to the professional nurse role utilizing the concepts of quality, safety and collaboration. Professional nurse caring behaviors are analyzed in the delivery of holistic care while utilizing evidence-based practice and informatics.

Prerequisites: All 100- 200- and 300-level nursing courses and NS 468, NS 469, NS 476 and NS 477.

Co-requisites: NS 470, NS 472, NS 473 and NS 474.

NS 468 Concepts of Complex Multisystem Clients I: Theory**Four semester hours**

The student will integrate previous knowledge and client-centered experiences while learning concepts of care for adults with complex multisystem disorders. The student will incorporate evidence-based practice and informatics to foster organized, safe client-centered care. This course is designed as the first part of a two semester exploration of complex multisystem disorders.

Prerequisites: All 100- 200- and 300-level nursing courses and BI 227 and ST 310.

NS 469 Concepts of Complex Multisystem Clients I: Clinical**Four semester hours**

The student will collaborate with the interdisciplinary team, incorporating evidence-based practice and informatics to deliver safe, quality care for the client with multisystem health disorders and their families across a variety of health care settings. In the professional nurse role, the student will analyze the use of informatics, teamwork and collaboration in relationship to quality health outcomes.

Prerequisites: All 100- 200- and 300-level nursing courses.

Co-requisite: NS 468.

NS 470 Concepts of Complex Multisystem Clients II: Theory**Three semester hours**

The student will integrate previous knowledge and client-centered experiences while learning advanced concepts of care for adults with complex multisystem disorders. The student will analyze evidence-based practice and the use of informatics in the management of safe, quality, client-centered care. This course is designed as the second part of a two semester exploration of complex multisystem disorders.

Prerequisites: All 100- 200- and 300-level nursing courses and NS 468, NS 469, NS 476 and NS 477.

Co-requisites: NS 467, NS 472, NS 473 and NS 474.

NS 471 Principles of Leadership and Management: Clinical for the RN to BSN/MSN**Two semester hours**

The student will apply leadership and management theories and concepts in diverse interdisciplinary health care environments. An emphasis will be placed on quality improvement, teamwork and collaboration and use of informatics in the leadership role.

Pre-requisites: NS 346, NS 348, NS 478 and NS 479

Co-requisite: NS 472

NS 472 Principles of Leadership and Management**Three semester hours**

The student will analyze theories and concepts of current nursing leadership and management in diverse interdisciplinary health care environments. The student will select

quality improvement processes to evaluate effectiveness of health care systems in meeting health needs of individuals, families and diverse populations.

Prerequisites: All 100- 200- and 300-level nursing courses and NS 468, NS 469, NS 476 and NS 477.

Co-requisites: NS 467, NS 472, NS 473 and NS 474.

NS 473 Preceptorship: Clinical

Four semester hours

The student will promote a caring, holistic approach while providing safe, client-centered care based on effective clinical decision-making within the interdisciplinary team. This course will provide opportunities to analyze professional nurse leadership roles and management concepts at the systems level while building on previous knowledge, skills and attitudes. The student will employ evidence-based practice and health care literacy to facilitate quality improvement processes for optimal health care.

Prerequisites: All 100- 200- and 300-level nursing courses and NS 468, NS 469, NS 476 and NS 477.

Co-requisites: NS 467, NS 470, NS 472 and NS 474.

NS 474 Pharmacology III

One semester hour

The student will review Pharmacology I and Pharmacology II courses to be able to provide safe, effective care related to medication administration.

Prerequisites: All 100- 200- and 300-level nursing courses and NS 468, NS 469, NS 476 and NS 477.

Co-requisites: NS 467, NS 470, NS 472 and NS 473.

NS 476 Population Health IV: Theory

Two semester hours

The student will synthesize knowledge to address population health-related behaviors to promote health and foster health prevention and health maintenance. A community-based health-related program will be designed, planned, implemented and evaluated. The student will analyze the role of the nurse in teamwork, leadership and collaboration while assessing quality improvement measures that support evidence-based practice. This course is designed as the fourth of four level courses in exploration of population health.

Prerequisites: All 100- 200- and 300-level nursing courses.

Co-requisites: NS 468, NS 469 and NS 477.

NS 477 Population Health IV: Clinical

Two semester hours

The student will apply client-centered care to individuals, groups and families within a diverse population. The student will value the need for continuous improvements that support evidence-based practice, integration of teamwork and collaboration, and the promotion of safe outcomes. The student will function efficiently in demonstrating the role of the nurse in teamwork, leadership and collaboration. The student will demonstrate the knowledge, skills and attitudes necessary to provide safe, quality-centered patient care with a focus on evidence-based practice with the integration of community based theories and public health policy.

Prerequisites: All 100- 200- and 300-level nursing courses.

Co-requisites: NS 468, NS 469 and NS 476.

NS 478 Advanced Population Health: Theory**Two semester hours**

The student will synthesize knowledge to address population health-related behaviors to promote health and foster health prevention and health maintenance. A community-based health-related program will be designed using current research based interventions. The program will be implemented and evaluated with regards to effectiveness. The student will analyze the role of the nurse in teamwork, leadership and collaboration while assessing quality improvement measures.

Prerequisite: NS 348.

Co-requisite: NS 479.

NS 479 Advanced Population Health: Clinical**Two semester hours**

The student will apply client-centered care to individuals, groups and families within a diverse population. The student will value the need for continuous improvement in clinical, which is supported by current research, integrated teamwork, collaboration and promoting safe outcomes. The student will function efficiently in demonstrating the role of the nurse in teamwork, leadership and collaboration. The student will demonstrate the knowledge, skills and attitudes necessary to provide safe, quality-centered patient care with a focus on evidence-based practice with the integration of community-based theories and public health policy.

Prerequisite: NS 348.

Co-requisite: NS 478.

NS 481 Population Health for the RN to BSN/MSN**Three semester hours**

The student will synthesize concepts of public health practice including its historic development. The student will synthesize knowledge to address population health-related behaviors to promote health and foster health prevention and health maintenance. The student will examine the significance of public health program planning in addressing global health issues and analyze quality improvement factors, which support the use of informatics, safety, quality care, and teamwork and collaboration.

Prerequisite: Current, unencumbered RN license.

Co-requisite: NS 482.

NS 482 Capstone/Practicum for the RN to BSN/MSN**Four semester hours**

This capstone/practicum course will provide the student the opportunity to complete practicum hours in a population health environment. The student will review and analyze current research and apply the findings to a final project.

Prerequisites: Current, unencumbered RN license.

Co-requisite: NS 481.

NS 480 Capstone for the RN to BSN**Three semester hours**

This capstone course will provide the student opportunities to analyze current research and apply the findings to facilitate quality improvement processes in a selected health care environment.

Prerequisites: NS 478 and NS 479.

NS 499 Independent Study

One to six credit hours

(By arrangement; one to six hours per week) Study directed by a faculty person on a topic of the student's interest and the faculty's expertise. Approval of program director required.

Optional Health Care Science Update Courses

Three Health Care Science Update courses exist as an option for RN to BSN or RN to MSN students who have not obtained college credit in Anatomy, Physiology, Microbiology, General Chemistry, Pathophysiology and/or Pharmacology.

HC 200 Health Care Science Update I

Three semester hours

This course builds upon the RNs basic knowledge in Anatomy and Physiology. Successful completion of Health Care Science Update I will provide the student with three semester hours of earned coursework and five semester hours of validation coursework.

Prerequisite: Admission into the RN to BSN or RN to MSN Program.

HC 205 Health Care Science Update II

Three semester hours

This course builds upon the RNs basic knowledge in pathophysiology and pharmacology. Successful completion of Health Care Science Update II will provide the student with three semester hours of earned coursework and three semester hours of validation coursework.

Prerequisite: Admission into the RN to BSN or RN to MSN Program.

HC 210 Health Care Science Update III

Three semester hours

This course provides a review of the basic principles of microbiology and biochemistry. The student's basic biochemistry knowledge will be expanded to include: stereochemistry, biomolecular chemistry, enzymology, PH influences, bioenergetics, metabolism, biosynthesis, amino and nucleic acids, lipids, proteins, genetic coding and pathways in cellular metabolism. The student's basic microbiology knowledge will be expanded to include: the structure, function and characteristics of bacteria, viruses, fungus and protozoa.

HC 220 Gerontology

Two semester hours

This course is an introduction to the field of human aging. The course of study will include a multidisciplinary examination of the way in which human aging is viewed, how we perceive the process of growing older and how society responds to the issues and problems of aging. The class will look at aging from the perspective of the social and political sciences, biological sciences, arts and humanities, care-giving and independent living, especially with the advent of the baby boomers in mind.

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GRADUATE NURSING COURSE DESCRIPTIONS

Note: All courses require admission to the program or a petition with approval by the MSN program director.

BI 805 Cadaver Applications in Anatomy

Three semester hours

The focus of this graduate elective course centers on expansion of the graduate student's foundational anatomy knowledge, brought from their undergraduate and clinical experiences through detailed cadaver dissection and lecture. Correlation of pertinent regional anatomy to clinical cases and/or areas of graduate study will be emphasized when relevant. Lecture and lab will be held at the University of Nebraska Medical Center Cadaver Lab. Course is set up as one lecture hour and two lab hours.

Prerequisite: BI 211 or equivalent.

GR 798 Essentials of Scholarly Writing

One semester hour

Essentials of scholarly writing offers one hour of credit for developing skills needed to compose evidence review of primary studies to address a focused question. A review of methods to organize the document will be emphasized as well as sharpening basic writing skills. Grammar, punctuation, improving study requirements needed for the scholarly document appropriate for the academic community.

Prerequisite: Admission to Master of Science in Nursing (MSN) program. Certificate students are not required to complete this course.

Course Grade: Pass/Fail.

NS 799 Role Transition

One semester hour

This course provides a framework for the transition to graduate education and serves as a foundation for the graduate program at Clarkson College. Students will learn how to effectively write scholarly papers, both in terms of format and APA style, and discuss the graduate student role as well as personal challenges to graduate education. This course provides an overview of the Clarkson College online course management platform. It includes a preview of the instructional methods and format of the courses, as well as special features within the course management platform.

Prerequisite: Admission to Master of Science in Nursing (MSN) program. Certificate students are not required to complete this course unless they have never taken an online course.

Course Grade: Pass/Fail.

NS 801 Theories and Concepts of Advanced Practice Roles

One semester hour

This course provides an overview of advanced practice nursing (APN). The history of advanced practice, educational requirements, licensure, credentialing, roles, scope of practice, prescriptive authority, practice environments to include cultural aspects, ethical, legal, reimbursement, and business issues for Nurse Practitioners, Clinical Nurse Specialists, Certified Midwives, and Certified Registered Nurse Anesthetists will be examined. The applicability to nursing leaders and educators will be explored.

Prerequisites: GR 798; NS 799.

NS 802 Health Care Delivery Systems and Managed Care

Three semester hours

This course is an overview of the American health care system. It includes the study of the evolution and current state of health care services and insurance, health professionals, and health services financing. Health care delivery models will be studied including access to care, "best practice" standards, managed care functions, contracting and current health policy issues relating to health care delivery. There will be an emphasis on quality control, outcome expectancies, disparities in care, issues of diversity and the role of the graduate prepared nurse in the national health care system.

Prerequisites: GR 798; NS 799.

NS 804 Application and Evaluation of Theory in Nursing

Three semester hours

Provides a general introduction to the philosophy of science as it applies to social and human phenomena. The process of theory development is discussed and various theories of nursing are analyzed and critiqued. Emphasis is placed on the nurse caring framework, application to nursing theory, nursing research, and nursing practice in a variety of settings. Through integrating theory and practice, students are given the opportunity to formulate their own personal application of theory in professional, educational, research and service activities.

Prerequisites: GR 798; NS 799.

NS 806 Theories of Learning for the Nurse Educator

Three semester hours

This course focuses on selected theories of learning. Development and cognition are examined in relation to their philosophical underpinnings and basic assumptions. Theory application to program/course design, students/faculty interactions, and evaluation process are explored.

Prerequisites: GR 798; NS 799 and NS 801.

NS 808 Nursing Law and Ethics

Three semester hours

This course provides various ethical frameworks and an overview of the U.S. legal system, as a basis for analyzing health care issues affecting health care institutions, individual patients, and health care providers. Overall legal-ethical issues common to health care administration, expanded practice nursing, and health care education are reviewed. Selected complex health care ethical dilemmas, such as right to life, right to die, and health care allocation are examined.

Prerequisites: GR 798; NS 799 and NS 801.

NS 812 Research Design and Methods

Three semester hours

The research process is examined in detail. Various research designs, both qualitative and quantitative, are analyzed in addition to exploring the relationship between research and practice. Topics such as human research protection, measurement tools, informed consent and evidence-based tables will be examined. The course will prepare the student to appraise published research studies, both qualitative and quantitative, and appropriately apply research finding to guide evidence-based practice.

Prerequisites: GR 798; NS 799, NS 847, NS 801, NS 804, NS 830 and NS 832.

NS 822 Curriculum Development for the Nurse Educator

Three semester hours

The focus of this course is curriculum development for the nurse educator in higher education, patient education or staff development. Emphasis is placed on the historical background of higher education, philosophical foundations of curriculum, curriculum development, and curriculum designs/models. Emphasis is placed on regulation, accreditation, and program accountability.

Prerequisites: GR 798; NS 799, NS 801 and NS 806.

NS 823 Evaluation Strategies for the Nurse Educator

Three semester hours

This course focuses on the process and current issues related to evaluation in nursing education. Evaluation models and concepts related to the measurement of program outcomes and levels, along with course and classroom competencies are explored. Additionally, the theories of testing and measurement and a variety of evaluation and assessment instruments are reviewed or developed. Legal and ethical issues related to student admission, progression, and evaluation in nursing programs are discussed.

Prerequisites: GR 798; NS 799, NS 801, NS 806 and preferably NS 822.

NS 826 Pharmacology, Pathophysiology and Health Assessment Overview for Nurse Educators

Three semester hours

This course will provide the application of comprehensive health assessment techniques, pathophysiological changes and pharmacological needs of clients across the lifespan using a case study approach. Application of evidence-based studies related to safe, client-centered care will be explored. Application of teaching strategies to concepts presented will be discussed.

Prerequisites: GR 798; NS 799, NS 801, NS 806 and preferably NS 822 and NS 823.

NS 827 Teaching and Learning Strategies for the Nurse Educator

Three semester hours

This course focuses on the development and implementation of teaching-learning strategies that engage students in the classroom, clinical and skills lab. The theoretical foundations of teaching and learning, methods for instructional planning, sequencing and organizing instruction, and utilization of evolving technological strategies are emphasized. Evidence-based teaching strategies for educators are examined that promote student engagement to provide safe, client-centered care.

Prerequisites: GR 798; NS 799, NS 801, NS 806 and preferably NS 822 and NS 823.

NS 828 Primary Care of the Geriatric Client

Two semester hours

This course provides the student with a framework for geriatric primary care nursing practice. It presents the dynamics of aging and its effects on older adults and their health. Underlying mechanisms of major chronic conditions affecting older adults will be presented. Clinical problems such as incontinence, functioning capacity, safety, nutrition, cognition, skin integrity and iatrogenic illness and their effect on ADLs will be explored. Advanced planning for end of life issues will be discussed. Current practices, strategies and evidence-based findings will support facilitation of interdisciplinary health care management of the geriatric client.

Prerequisites: GR 798; NS 799, NS 801, NS 802, NS 804 and NS 830.

Clinical hours: zero.

NS 830 Advanced Physical Assessment

Three semester hours

This course emphasizes competencies in history taking and performing comprehensive health assessments of individuals and families of all ages, and the interpretation of findings. The concept of caring and how it plays a part in this process will be woven throughout the course.

Prerequisites: GR 798; NS 799, NS 801, NS 802 and NS 804. NS 838 (Advanced Pathophysiology) should be taken prior to NS 830 or concurrently.

Note: Requires preceptor and clinical site approval prior to registration.

Clinical hours: 50.

NS 832 Primary Health Care I

Three semester hours

This course examines management of common health problems for adults in primary care. A conceptual framework for the primary care nurse practitioner's clinical practice is explored. The course addresses the concepts of primary care health promotion and maintenance, illness prevention, differentiation of clinical patterns, and clinical decision-making. Planning and evaluating care are learned relative to dermatologic, hematologic, respiratory, eye, ear, nose, throat, head and neck, cancer and family issues in chronic illness. Refinement of diagnostic reasoning strategies will be the focus. Principles of teaching/learning, family assessment, cost analysis, and cultural beliefs are integrated in the development of evidence-based practice plans of care. The concept of caring and how it plays a part in evidence-based practice will be woven throughout the course.

Prerequisites: GR 798; NS 799, NS 801, NS 802, NS 804, NS 830 and NS 838. NS 836 (Pharmacology for Practitioners) should be taken prior to NS 832 or concurrently.

Note: Requires preceptor and clinical site approval prior to registration.

Clinical hours: 120.

NS 834 Advanced Nutrition

Three semester hours

This course emphasizes the essential components of nutrition including cultural aspects to prevent disease and promote and restore the health of individuals and families. Therapeutic diets will be included.

Prerequisites: GR 798; NS 799. Recommended concurrent enrollment in NS 840.

NS 836 Pharmacology for Practitioners

Three semester hours

Emphasis is placed on reviewing basic pharmacological concepts and having students understand how and why various classes of drugs exert their therapeutic effects. This course will build upon information learned during undergraduate nursing pharmacology courses and from on-the-job experience. Students will learn where, why, and how various classes of drugs exert their therapeutic effects (pharmacodynamics). Pharmacokinetic concepts (i.e., the actions of the body on a drug) will also be reviewed. Through the integration of pharmacokinetics and pharmacodynamics, students will gain an understanding of the predictable nature of the therapeutic actions and many of the side effects and contraindications of drugs.

Prerequisites: GR 798; NS 799 and NS 838. This course should be taken prior to 832 or concurrently.

NS 838 Advanced Pathophysiology

Three semester hours

Pathophysiology is the study of how cells, tissues, organs and organ systems respond to disease. This course is designed to provide the student with a comprehensive foundation of

the phenomena that produce alterations in human physiologic function across the lifespan. The course examines general principles of pathology such as inflammation, wound healing, genetic diseases and oncology.

The course explores the mechanisms of how disease affects function, and how systems respond to each disease and compensate for disease.

Prerequisites: GR 798; NS 799. This course should be taken prior to NS 830 or concurrently.

NS 840 Primary Care of Children and Adolescents

Three semester hours

This course examines management of common physical and psychological health problems in children and adolescents. Refinement of diagnostic reasoning strategies will be the focus. Principles of teaching/learning, family assessment, cost analysis, and cultural beliefs are integrated in the development of evidence-based practice plans of care. The concept of caring and how it plays a part in evidence-based practice will be woven throughout the course.

Prerequisites: GR 798; NS 799, NS 830, NS 832, NS 836 and NS 838. Recommended concurrent enrollment in NS 834 or NS 812.

Note: Requires preceptor and clinical site approval prior to registration.

Clinical hours: 160.

NS 841 Behavioral Health Care for Practitioners

Three semester hours

This course examines family problems, health risk behaviors and common psychiatric disorders. Refinement of diagnostic reasoning and referral skills will be the focus. Principles of teaching/learning, family assessment, cost analysis, cultural beliefs, service-learning, and diversity are integrated in the development of evidenced-based practice plans of care. The concept of caring and how it plays a part in evidenced-based practice is woven throughout the course.

Prerequisites: GR 798; NS 799, NS 830, NS 832, NS 836 and NS 838. Recommended concurrent enrollment in NS 834.

Note: Requires preceptor and clinical site approval prior to registration.

Clinical hours: 160.

NS 842 Primary Care of Women

Three semester hours

This course examines management of common physical and psychological health problems of women. Refinement of diagnostic reasoning strategies will be the focus. Principles of teaching/learning, family assessment, cost analysis and cultural beliefs are integrated in the development of evidence-based practice plans of care. The concept of caring and how it plays a part in the evidence-based practice will be woven throughout the course.

Prerequisites: GR 798; NS 799, NS 830, NS 832, NS 834, NS 836, NS 838 and NS 812. Recommended concurrent enrollment in NS 907.

Note: Requires preceptor and clinical site approval prior to registration.

Clinical hours: 160.

NS 844 Primary Health Care II

Three semester hours

This course examines management of complex problems seen in adults in primary care. Musculoskeletal, neurologic, gastrointestinal, cardiovascular, endocrine, renal, urologic, select infectious disease, geriatric, emergency, and trauma issues will be examined. Refinement of diagnostic reasoning strategies will be the focus. Principles of teaching/ learning, family assessment, cost analysis, and cultural beliefs are integrated in the development of

evidence-based practice plans of care. The concept of caring and how it plays a part in evidence-based practice will be woven throughout the course.

Prerequisites: GR 798; NS 799, NS 801, NS 802, NS 804, NS 808, NS 812, NS 830, NS 832, NS 834, NS 836, NS 838, NS 840, NS 842 and NS 847. NS 908 or NS 909 may be taken concurrently (if NS 907 has been completed).

Note: Requires preceptor and clinical site approval prior to registration.

Clinical hours: 160.

NS 847 Applied Statistics

Three semester hours

An in-depth coverage of the strategies involved in data analysis, including statistical procedures and interpretation of data for research. Students will apply knowledge of descriptive, parametric, non-parametric, univariate, and selected multivariate approaches to data analysis. Emphasis will be on interpretation of statistical results and on evaluation of published research and its applicability to health care. Each student is expected to be familiar with common terminology and with use of descriptive and inferential statistical techniques, including probability, chi-square, student t analysis of variance, rank sum, Mann Whitney U, median test, sign test, and correlation.

Prerequisite: GR 798 (Unless NS 847 is a prerequisite for your program); Basic statistics course preferred.

NS 894 Nursing Education Practicum

Three semester hours

This course contains an advanced application of nursing education principles and theories within a school of nursing, patient teaching, or staff development setting. Students are expected to incorporate knowledge gained throughout the education major. The concept of caring and how it plays a part in the design, implementation, and evaluation of a program of study and the students will be emphasized.

Prerequisites: GR 798; NS 799, NS 801, NS 802, NS 804, NS 808, NS 847, NS 812, NS 806, NS 822, NS 823, NS 826 and NS 827.

Co-requisites: NS 812, NS 907, NS 908 or NS 909.

Clinical hours: 160.

NS 898 Nursing Health Care Leadership Practicum

Three semester hours

The course offers the student the opportunity to demonstrate advanced leadership/management competencies in a selected health care organization. The course also promotes the utilization of advanced theoretical knowledge in new and existing situations within the practice setting. Learning outcomes stress creative leadership behaviors.

Prerequisites: GR 798; NS 799, NS 801, NS 802, NS 804, NS 808, NS 812, NS 847, MB 803, MB 804, MB 805, MB 806, MB 807 and MB 810. NS 814, NS 907, NS 908 or NS 909 may be taken concurrently.

Note: Student must initiate arrangements for practicum with the faculty prior to registration (135 hours of practice during the semester).

NS 899 Independent Study

One to six semester hours

The course includes guided study in special topics under the supervision of a faculty member. Completion of an Independent Study form is required before registration.

Prerequisite: Approval of a faculty, Director or Dean required before registration.

NS 907 Evidence-Based Practice Research Project I

One semester hour

NS 907 is the first of three courses culminating in a scholarly, evidence-based practice journal article and poster presentation. The EBP research project allows students to investigate a question of practical importance by developing and testing an intervention, curriculum or protocol for application within a specific setting. Each student will complete a problem statement, theoretical framework and a literature review according to established requirements relevant to their area of concentration.

Prerequisites: GR 798, NS 799, NS 847, NS 801, NS 802, NS 804, NS 808, NS 812, NS 830, NS 832 and three additional credit hours of specialty courses. May be taken concurrently with NS 908. Students may take only two credit hours of EBP at a time.

NS 908 Evidence-Based Practice Research Project II

One semester hour

NS 908 is the second of three courses culminating in a scholarly, evidence-based practice journal article and poster presentation. The EBP research project allows students to investigate a question of practical importance by developing and testing an intervention, curriculum or protocol for application within a specific setting. Each student will build on the material completed in NS 907 and will add the methodology, data analysis plan, IRB components and journal query letter.

Prerequisites: GR 798, NS 799, NS 847, NS 801, NS 802, NS 804, NS 808, NS 812, NS 830, NS 832 and three additional credit hours of specialty courses. May be taken concurrently with NS 907 or NS 909. Students may take only two credit hours of EBP at a time.

NS 909 Evidence-Based Practice Research Project III

One semester hour

NS 909 is the final course in the three courses culminating in a scholarly, evidence-based practice journal article and poster presentation. The EBP research project allows students to investigate a question of practical importance by developing and testing an intervention, curriculum or protocol for application within a specific setting. Each student will build on the material completed in NS 907 and NS 908, completing the project to include data collection and analysis, findings, recommendations and conclusions. Completed journal article and poster presentation is required.

Prerequisites: GR 798, NS 799, NS 847, NS 801, NS 802, NS 804, NS 808, NS 812, NS 830, NS 832 and three additional credit hours of specialty courses. May be taken concurrently with NS 908. Students may take only two credit hours of EBP at a time.

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GRADUATE NURSING: SPECIALIZATION IN NURSE ANESTHESIA COURSE DESCRIPTIONS

Note: All courses require admission to the program or a petition with approval by the MSN program director.

AN 805 Cadaver Applications in Anatomy

Three semester hours with Lab

The focus of this graduate course centers on expansion of the graduate student's foundational anatomy knowledge through detailed cadaver dissection and lecture. Correlation of pertinent regional anatomy to clinical cases and/or areas of graduate study will be emphasized when relevant. Lecture and lab will be held at the University of Nebraska Medical Center Cadaver Lab. Course is set up as one lecture hour (one contact hour per week) and two lab hours (six contact hours per week).

Prerequisites: AN 841 and AN 842. To be taken simultaneously with AN 843.

AN 830 Advanced Physical Assessment for Nurse Anesthesia

Three semester hours

This course emphasizes competencies in history taking and performing comprehensive health assessments of individuals of all ages, and the interpretation of findings with a focus on anesthesia. The concept of caring and how it plays a part in this process will be woven throughout the course.

Prerequisites: AN 841 and AN 842.

Note: Requires a clinical site component—completion of a minimum of 50 clinical hours and 40 preoperative assessments.

AN 841 Anatomy, Physiology and Pathophysiology I

Six semester hours

A systems approach to the advanced study of anatomy, physiology and pathophysiology with an emphasis on anesthesia implications. Covers various pathological conditions and diseases of specific concern to the anesthesia provider. Focuses on the immune, musculoskeletal, renal and hematologic systems of the body.

Prerequisite: Acceptance into Nurse Anesthesia program.

AN 842 Anatomy, Physiology and Pathophysiology II

Six semester hours

A systems approach to the advanced study of anatomy, physiology and pathophysiology with an emphasis on anesthesia implications. Covers various pathological conditions and diseases of specific concern to the anesthesia provider. Focuses on the respiratory, gastrointestinal, hepatic, endocrine and nervous systems in addition to important areas of non-systems pathophysiology.

Prerequisite: AN 841.

AN 843 Anatomy, Physiology and Pathophysiology III

Two semester hours

A systems approach to the advanced study of anatomy, physiology and pathophysiology with an emphasis on anesthesia implications. Covers various pathological conditions and diseases of specific concern to the anesthesia provider. Culmination of students acquired knowledge of anatomy, physiology and pathophysiology in a case study format designed to aid the student in the application of didactic materials and transition into the clinical phase of the program.

Prerequisites: AN 841, AN 842, AN 870 and AN 871.

AN 866 Pharmacology I: Anesthetic Agents

Three semester hours

Focus on general principles of drug action; uptake and distribution of inhalation agents, inhalation anesthetics and anesthesia induction drugs; opiate agonists/antagonists; and non-narcotic analgesics.

Prerequisite: *Acceptance into Nurse Anesthesia program.*

AN 867 Pharmacology II: Anesthetic Agents

Three semester hours

Focus on neuromuscular blocking drugs, local anesthetics, autonomic pharmacology, asthma pharmacotherapy and cardiovascular pharmacology.

Prerequisite: *AN 866.*

AN 868 Pharmacology III Adjunct Drugs

Two semester hours

The basic principles of pharmacology including mechanisms of absorption, bio-transformation, elimination, dose-response relationships, and drug and receptor interactions are presented. Includes detailed presentation of the pharmacology of classes of adjunct drugs encountered by nurse anesthetists will be made.

Prerequisites: *AN 866 and AN 867.*

AN 870 Basic Principles of Anesthesia

Four semester credits

Introduces the nurse anesthesia graduate student to concepts necessary to plan and execute a safe, individualized anesthetic. Course includes pre- and post-anesthetic assessment, formulation of the anesthesia care plan, anesthetic techniques, the administration and management of major nerve conduction anesthesia, acute pain management, prevention of complications, fluid management, positioning the patient, and the monitoring and utilization of anesthesia equipment. An emphasis is placed on patient centered care, prevention of complications and improving patient outcomes.

Prerequisite: *Acceptance into Nurse Anesthesia program.*

AN 870L Basic Principles Lab

One semester credit

Provides the nurse anesthesia graduate student guided practical experience associated with those concepts presented in Basic Principles of Anesthesia. Includes practice in and evaluation of task specific skills in both simulation and actual patient environments. This includes but is not limited to human patient simulation, skills lab, regional anesthesia simulation and airway simulation.

Prerequisites: *Acceptance into Nurse Anesthesia program. This course is to be taken simultaneously with AN 870.*

AN 858 Scientific Foundations

Three semester hours

A review of the principles of chemistry (aqueous solutions and concentrations; acids, bases and salts), biochemistry (hepatic metabolism, cellular mechanisms for action and drug receptor interaction) and physics (units of measurement; gases and gas laws; solubility, diffusion and osmosis; pressure and fluid flow; electricity and electrical safety; vaporization and humidification; and measurement of oxygen, carbon dioxide and hydrogen ion) as they relate to anesthesia practice.

Prerequisite: *Acceptance into Nurse Anesthesia program.*

AN 871 Advanced Principles of Anesthesia

Four semester credits

Intensively covers the advanced concepts and principles of anesthetic management with an emphasis on pediatrics, obstetrics, geriatrics, obesity and chronic pain management. Includes student presentations of the anesthesia techniques and management of specific surgical procedures with patient-focused anesthesia implications. This is a teaching exercise in which the students are responsible for educating their peers. An emphasis is placed on patient-centered care, prevention of complications and improving patient outcomes.

Prerequisite: AN 870.

AN 871L Advanced Principles Lab

One semester credit

Provides the nurse anesthesia graduate student guided practical experience associated with those concepts presented in Advanced Principles of Anesthesia. Includes practice in and evaluation of task specific skills in both simulation and skills lab environments. Health and safety requirements are completed during this course.

Prerequisite: AN 870L. To be taken simultaneously with AN 871.

AN 859 Professional Aspects of Nurse Anesthesia

Three semester credits

Provides the graduate nurse anesthesia student an opportunity to focus on a variety of professional issues including the history of nurse anesthesia, professional socialization and participation, roles of the nurse anesthetist and the American Association of Nurse Anesthetists, regulations of nurse anesthesia practice, standards of care, scope of practice, practice settings and employment options, reimbursement, quality assessment, the legal system, medical ethics and chemical dependency, patient safety, infection control and standard precautions. Attendance at a State Association of Nurse Anesthetists meeting is required for this course. This is a designated service course which provide partial fulfillment of the college service-learning requirements.

Prerequisite: Acceptance into Nurse Anesthesia program.

AN 911 Clinical Correlation Conference Seminar I:

Practice Roles/Managed Care/Clinical Correlation Case Studies

Two semester hours

Students will explore such issues as, roles of the advance practice nurse today and in the future, the impact of state and federal laws on CRNA practice, managed care organizations, reimbursement methods, profit vs. nonprofit hospitals, specialty hospitals, hospital governance, and how these issues relate to nurse anesthesia practice. This is a designated service course which provide partial fulfillment of the college service-learning requirements.

Prerequisite: Progression to clinical phase of Nurse Anesthesia program.

AN 912 Clinical Correlation Conference Seminar II:

Health Care Systems/Clinical Correlation Case Studies

Two semester hours

Students will explore such issues as, current health care system, recent and future trends in health care, health care policy issues facing the United States, and how these issues relate to nurse anesthesia practice. This is a designated service course which provide partial fulfillment of the college service-learning requirements.

Prerequisite: AN 911.

**AN 913 Clinical Correlation Conference Seminar III:
Theory Development/Clinical Correlation Case Studies**

Two semester hours

Students will explore the process of theory development including the integration of evidenced-based anesthesia practice.

Prerequisite: AN 912.

**AN 914 Clinical Correlation Conference Seminar IV:
Theory Application/Clinical Correlation Case Studies**

Two semester hours

Students will explore application of nursing theory to clinical, educational and/or administrative activities in the nurse anesthesia practice. This is a Designated Service Course which provide partial fulfillment of the college service-learning requirements.

Prerequisite: AN 913.

AN 911–915 Clinical Anesthesia Practicum I–V

15 semester hours

Exposure of graduate Nurse Anesthesia student to patient care with supervised participation in administration of anesthesia. Student is provided opportunity to demonstrate internalization of theoretical concepts and knowledge base application in anesthesia management and techniques. Includes opportunities in various clinical settings, providing the experiences necessary for the student to gain competency for entry level anesthesia practice.

During clinical practicum I–IV, the student will meet or exceed objectives within cognitive, psychomotor and affective domains. These objectives are appropriate for the student's level of experience. Expectations increase with each semester. During clinical practicum V, the student will meet or exceed program terminal objectives in the areas of patient safety, individualized perianesthetic management, critical thinking, communication skills and professional role of the nurse anesthetist. AN 951 and AN 953 include health and safety requirements.

Prerequisite: Progression to clinical phase of Nurse Anesthesia program

AN 920 ECG Interpretation and Clinical Implications of Dysrhythmias in the Adult Patient

One semester hour

This course content will build upon previous ECG knowledge and experience. It includes 12-lead ECG interpretation, hemodynamic and clinical implications of dysrhythmias, and treatment options for identified abnormalities. Emphasis will be placed on theory and research that supports best-practice. Course content will develop a conceptual understanding and enhanced clinical skills for the care of the adult patient.

Prerequisite: Successful completion of Phase 1 of the Nurse Anesthesia program.

AN 931 Senior Project I

One semester hour – taken during semester five

This is the first on three courses culminating in a scholarly senior project. The student will identify and assess a problem within anesthesiology, then propose a needed change in practice, education, theory or policy. The student will complete a problem statement, theoretical framework and a literature review related to their topic.

Prerequisite: Progression in clinical phase of Nurse Anesthesia program.

AN 932 Senior Project II

One semester hour – taken during semester six

This is the second of three courses culminating in a scholarly, senior project. The student will critically analyze existing literature; gather and interpret data if indicated; then formulate a plan to enhance anesthesia practice, education, theory or policy.

Prerequisites: *Progression in clinical phase of Nurse Anesthesia program and AN 931.*

AN 933 Senior Project III

One semester hour – taken during semester seven

This is the final course of the three courses in which the student realizes the culmination of the scholarly, senior project with implementation, presentation and/or publication.

Prerequisites: *Progression in clinical phase of Nurse Anesthesia program and AN 932.*

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DOCTOR OF NURSING PRACTICE COURSE DESCRIPTIONS

DNP 910/EDD 910 Applied Research

Three semester hours

This course in advanced research provides students with knowledge and skills for understanding, analyzing and designing research at the doctorate-level. Students explore the application of research to the practice setting. Quantitative, qualitative and mixed-method research designs and methods are analyzed. Ethical and social change implications of conducting research, producing knowledge and engaging in scholarship are emphasized. Students will synthesize and apply their knowledge and skills of applied research.

Prerequisites: *Three credit hours graduate statistics and three credit hours graduate research. May take concurrently with DNP/EDD 935 and/or DNP/EDD 920.*

DNP 935/EDD 935 Advanced Health Care Policy, Law and Advocacy

Two semester hours

This course will prepare the student to design, influence and implement health care policies and laws that frame health care practice/education. The student will demonstrate the ability to analyze the policy process and engage in politically competent actions and advocacy, to include institutional, local, state, regional, federal and/or international levels. Students will demonstrate the essential competencies to assume a leadership role in the development of health policy by contrasting the major contextual factors and policy triggers that influence health policy-making at the various levels.

Prerequisite: *Three credit hours graduate statistics and three credit hours graduate research. May take concurrently with DNP/EDD 910 and/or DNP/EDD 920.*

DNP 920/EDD 920 Doctoral Seminar I

One semester hour

This course focuses on the dissertation process and a review of the literature surrounding the student's proposed topic. The students' committee chair and members will be identified. The roles of the committee chair and committee members are discussed, as well as College resources.

Prerequisites: *Three credit hours graduate statistics and three credit hours graduate research. May take concurrently with DNP/EDD 910 and/or DNP/EDD 935.*

DNP 915/EDD 915 Outcomes of Health Care in a Global Society

Three semester hours, 45 clinical hours

This course examines the behavioral, cultural and social contexts of health disparities and its consequences as well as implications for the health of minority populations from a health care perspective. The history of health disparities, inequity and inequality while highlighting their differences are discussed. Emphasis is placed on the roles of health care practitioners and health care facilities in providing health care equity.

Prerequisites: *DNP/EDD 910, DNP/EDD 935, DNP/EDD 920. May take concurrently with DNP 940 or EDD 962.*

DNP 930/EDD 930 Organizational Systems

Three semester hours, 45 clinical hours

This course views a health care organization as a system and focuses on structures that provoke behaviors that determine events. Unique organizational cultures, structures and behaviors that impact organizational performance will be presented. The course addresses organizational behavior, conflict resolution and change management.

Prerequisites: *DNP/EDD 910, DNP/EDD 935, DNP/EDD 920, DNP/EDD 915, EDD 962, DNP 942. May take concurrently with DNP 942 or EDD 960.*

Course Grade: *Pass/Fail.*

DNP 921/EDD 921 Doctoral Seminar II

Two semester hours

This course, focusing on scientific inquiry, emphasizes the formulation and the writing of a dissertation/proposal and the process for IRB. Methodology and content for each of the proposed chapters are defined.

Prerequisites: DNP/EDD 910, DNP/EDD 935, DNP/EDD 920, DNP/EDD 915, EDD 962, DNP 940, DNP/EDD 930, DNP 942, EDD 960 DNP 946, DNP 952 and/or DNP 954, EDD 946, EDD 966, EDD 968, and EDD 964.

Course Grade: Pass/Fail.

Comprehensive Assessment of Core (Comps)

Note: The Comprehensive Assessment of Core (Comps) is not a credit course. However, it must be completed with passing mark before enrolling in Doctoral Seminar III.

The purpose of the Comprehensive Assessment of Core course is to provide evidence of growth and development as a result of knowledge gained through core coursework and to provide an opportunity for self-assessment as a reflective practitioner. A portfolio approach will be used to assess student master of core learning outcomes. The portfolio presentation will reflect synthesis of knowledge gained through the core coursework. This reflection will provide evidence of change/growth in personal and professional goals/objectives identified at the time of admission.

Course Grade: Pass/Fail.

DNP 922/EDD 922 Doctoral Seminar III

Two semester hours

This course focuses on the data collection, data analysis and formulation of dissertation outcome chapter(s) following IRB approval. A thorough discussion of the review of literature refuting or supporting the dissertation results is highlighted.

Prerequisites: Successful completion of Comps, DNP/EDD 910, DNP/EDD 935, DNP/EDD 920, DNP/EDD 915, EDD 962, DNP 940, DNP/EDD 930, DNP 942, EDD 960, DNP 946, DNP 952 and/or DNP 954, EDD 946, EDD 966, EDD 968, EDD 964, EDD 970 and EDD 974. May take concurrently with DNP 948, DNP 922 or EDD 975 and EDD 972.

Course Grade: Pass/Fail.

DNP 923/EDD 923 Doctoral Seminar IV

One semester hour

This course focuses on the completion of the dissertation. Content, format issues and recommendations for further research are discussed. Dissemination of the dissertation outcome and possible outlets for publication are covered.

Prerequisites: Successful completion of Comps, DNP/EDD 910, DNP/EDD 935, DNP/EDD 920, DNP/EDD 915, EDD 962, DNP 940, DNP/EDD 930, DNP 942, EDD 960, DNP 946, DNP 952 and/or DNP 954, EDD 946, EDD 966, EDD 968, EDD 964, EDD 970, EDD 921, EDD 974, DNP 948, DNP 951, or EDD 975, EDD 922 and EDD 972. May take concurrently with DNP 949, DNP 952 and EDD 976.

Course Grade: Pass/Fail.

DNP 940 Biostatistics

Three semester hours

This course provides an overview of the logic and appropriate statistical techniques most commonly reported in the research of the health professions. Emphasis is placed on logic of each statistical treatment, appropriate use and assumptions of the treatment, interpretation of the results from statistical software and evaluation of published results. Students examine various statistical methods, including data analysis theory, data management and interpretation of results using standard statistical packages. Additional course topics

include: probability distributions and conditional probability, descriptive statistics, statistical inference, parametric and non-parametric procedures, regression and correlation methods as well as repeated measures.

Prerequisites: DNP/EDD 910, DNP/EDD 935, DNP/EDD 920. May take concurrently with DNP/EDD 915.

DNP 942 Designing Theory for Guiding of Holistic Care

Three semester hours

This course in advanced research provides students with knowledge and skills for understanding, analyzing and designing research at the doctorate-level. Students explore the application of research to the practice setting. Quantitative, qualitative and mixed-method research designs and methods are analyzed. Ethical and social change implications of conducting research, producing knowledge and engaging in scholarship are emphasized. Students will synthesize and apply their knowledge and skills of applied research.

Prerequisites: DNP/EDD 910, DNP/EDD 935, DNP/EDD 920, DNP/EDD 915 and DNP 940. May take concurrently with DNP/EDD 930.

DNP 946 Health Economics, Finance and Entrepreneurship

Four semester hours, 45 clinical hours

This course will enable learners to apply the tools of economics, finance and strategy to address challenges faced by health care providers. Strategies for payers, manufacturers and providers will be examined. Topics will include role of economics, cost effectiveness, market analysis and financial projecting. Case studies and current events will be integrated throughout to encourage discussions about health care economics and finance. The culminating project for the class will be to develop a business plan for a new health care educational program/initiative.

Prerequisites: DNP/EDD 910, DNP/EDD 935, DNP/EDD 920, DNP/EDD 915, DNP 940, DNP/EDD 930 and DNP 942. May take concurrently with DNP 952 and/or DNP 954.

DNP 952 Grant Writing

One semester hour

This course will discuss the ideologies and techniques of effective grant writing, culminating in the creation of a competitive grant proposal.

Prerequisites: DNP/EDD 910, DNP/EDD 935, DNP/EDD 920, DNP/EDD 915, DNP 940, DNP/EDD 930 and/or DNP 942. May take concurrently with DNP 946 and/or DNP 954.

DNP 954/EDD 954 Manuscript Writing

One semester hour

This course guides students through the preparation of a manuscript using a previously designed or equivalent writing project. Students will develop essential parts of the manuscript during the course and prepare it for publication.

Prerequisites: DNP/EDD 910, DNP/EDD 935, DNP/EDD 920, DNP/EDD 915, DNP 940, DNP/EDD 930 and/or DNP 942. May take concurrently with DNP 946 and/or DNP 952.

DNP 944 Epidemiology

Three semester hours, 45 clinical hours

This course focuses on the distribution and determinants of disease frequency in human populations. This course prepares the student to use epidemiological strategies to examine patterns of illness or injury in groups of people. Concepts of health, risk and disease causality are examined. Implications for development of data based programs for disease/injury prevention and control as well as policy implications will be discussed.

Prerequisites: *DNP/EDD 910, DNP/EDD 935, DNP/EDD 920, DNP/EDD 915, DNP 940, DNP/EDD 930, DNP 942, DNP 946 and/or DNP 952. May take concurrently with DNP 950 and DNP 921.*

DNP 948 Evidence-Based Practice I

Three semester hours

This course expands on the concept of evidence-based practice and its relationship to improved patient outcomes. Students gain competence through a 90 hour clinical experience in activities aimed at improving the healthcare practice and systems, outcome evaluations, translation of research into practice and outcomes, participation in interdisciplinary and collaborative research, and dissemination of results. Clinical sites may include collaboration with experts in local, state, national and international health care agencies.

Prerequisites: *DNP/EDD 910, DNP/EDD 935, DNP/EDD 920, DNP/EDD 915, DNP 940, DNP/EDD 930, DNP 942, DNP 946 and/or DNP 952, DNP 950 and DNP 921. May take concurrently with DNP 922 and DNP 951.*

DNP 949 Evidence-Based Practice II

Three semester hours

This course expands on the concept of evidence-based practice and its relationship to improved patient outcomes. Students gain competence, through a 90 hour clinical experience, in activities aimed at improving the health care practice and systems, outcome evaluations, translation of research into practice and outcomes, participation in interdisciplinary and collaborative research, and dissemination of results. Clinical sites may include collaboration with experts in local, state, national and international health care agencies.

Prerequisites: *DNP/EDD 910, DNP/EDD 935, DNP/EDD 920, DNP/EDD 915, DNP 940, DNP/EDD 930, DNP 942, DNP 946, DNP 952 and/or DNP 954, DNP 950, DNP 921, DNP 944, DNP 950, DNP 948, DNP 922 and DNP 951. May take concurrently with DNP/EDD 923 and DNP 952.*

DNP 950 Dissertation/Residency I

One semester hour, 45 clinical hours

This **first** course of **three** dissertation/residency courses taken **concurrently** with DNP 921 Doctoral Seminar II applies knowledge and skill to improve health care outcomes while providing students with the opportunity to participate in a residency in their area of specialization. Students gain competence analyzing organizational systems and facilitating change in health care delivery. Students will have opportunities to evaluate current practice, translate research into practice and participate in activities aimed at improving the access, efficiency and quality of health care systems. Residency activities provide the students with opportunities to participate in professional service activities to expand their area of research or clinical interest and/or develop significant scholarly pursuits. The focus is on creating change in the health care system through analysis, synthesis, critique and application of evidence-based practice to support accessible high quality, safe, efficient and effective health care. Clinical sites for the DNP residency may include collaboration with experts in

community, local, state and national health care agencies. Residency activities are selected by the student under the guidance of the faculty advisor and preceptor.

Prerequisites: DNP/EDD 910, DNP/EDD 935, DNP/EDD 920, DNP/EDD 915, DNP 940, DNP/EDD 930, DNP 942, DNP 946 and/or DNP 952. May take concurrently with DNP 944 and DNP 921.

Course Grade: Pass/Fail.

DNP 951 Dissertation/Residency II

One semester hour, 45 clinical hours

This **second** course of **three** dissertation/residency courses taken concurrently with DNP 922 Doctoral Seminar III applies knowledge and skill to improve health care outcomes while providing students with the opportunity to participate in a residency in their area of specialization. Students gain competence analyzing organizational systems and facilitating change in health care delivery. Students will have opportunities to evaluate current practice, translate research into practice and participate in activities aimed at improving the access, efficiency and quality of health care systems. Residency activities provide the students with opportunities to participate in professional service activities to expand their area of research or clinical interest and/or develop significant scholarly pursuits. The focus is on creating change in the health care system through analysis, synthesis, critique and application of evidence-based practice to support accessible high quality, safe, efficient and effective health care. Clinical sites for the DNP residency may include collaboration with experts in community, local, state and national health care agencies. Residency activities are selected by the student under the guidance of the faculty advisor and preceptor.

Prerequisites: DNP/EDD 910, DNP/EDD 935, DNP/EDD 920, DNP/EDD 915, DNP 940, DNP/EDD 930, DNP 942, DNP 946 and/or DNP 952, DNP 950 and DNP 921. May take concurrently with DNP 922 and DNP 948.

Course Grade: Pass/Fail.

DNP 952 Dissertation/Residency III

One semester hour, 45 clinical hours

This **third** course of **three** dissertation/residency courses taken concurrently with DNP 923 Doctoral Seminar IV applies knowledge and skill to improve health care outcomes while providing students with the opportunity to participate in a residency in their area of specialization. Students gain competence analyzing organizational systems and facilitating change in health care delivery. Students will have opportunities to evaluate current practice, translate research into practice and participate in activities aimed at improving the access, efficiency and quality of health care systems. Residency activities provide the students with opportunities to participate in professional service activities to expand their area of research or clinical interest and/or develop significant scholarly pursuits.

Prerequisites: May take concurrently with NS 949 and DNP 923.

Course Grade: Pass/Fail.

DNP 999/EDD 999 Dissertation Completion

One to eight semester hours

The course includes guided study in dissertation completion under the supervision of committee chair. Completion of an Independent Study form is required before registration.

Prerequisites: approval of committee chair, director or dean required.

Course Grade: Pass/Fail.

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