

Fall 2020 Course Descriptions as of 04/02/2020 08:12 PM

Information in Browse Course Catalog is subject to change. Information is term specific. Please refer to the appropriate term when searching for course content. Key to Course Descriptions may be found at: http://rcs.registrar.arizona.edu/course_descriptions_key.

Nursing (NURS)

NURS 195: Skills for Success in Nursing (1 unit)

Description: This course combines class activities and discussions with out-of-class learning experiences and readings for students exploring careers in the nursing field. Discussions and activities center on personal development; goal-setting; developing professional relationships and skills; time management; and the exploration of how to utilize student support resources.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Colloquium Required

Course typically offered:

Main Campus: Fall

Success Course: Success Course

NURS 350: Pathophysiology (3 units)

Description: This introductory course examines the pathophysiologic mechanisms that contribute to altered health states in humans using a conceptual and integrative approach.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Repeatable: Course can be repeated a maximum of 3 times.

Course typically offered:

Main Campus: Fall, Spring

Recommendations and additional information: PSIO 201 and PSIO 202 (preferred). Non-nursing majors who wish to enroll should consult the instructor and complete all prerequisites.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 351A: Nursing Pathophysiology I (1 unit)

Description: This is the first in a series of three courses that provide a conceptual, integrative approach to selected pathophysiological phenomena and human responses to illness. This course is designed to give the student an understanding of pathophysiological concepts and their application to clinical practice. In addition, the course will integrate concepts related to aging, genetics-environmental factors, and emerging research topics that influence health and disease.

Grading basis: Regular Grades

Career: Undergraduate

Course Components:	Lecture	Required
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Course typically offered: Distance Campus: Fall, Spring, Summer

Recommendations and additional information: Enrollment in the BSN: Integrative Health Subplan.

NURS 351B: Nursing Pathophysiology II (1 unit)

Description: This is the second in a series of three courses that provide a conceptual, integrative approach to selected pathophysiological phenomena and human responses to illness. This course is designed to give the student an understanding of pathophysiological concepts and their application to clinical practice. In addition, the course will integrate concepts related to aging, genetics-environmental factors, and emerging research topics that influence health and disease.

Grading basis: Regular Grades

Career: Undergraduate

Course Components:	Lecture	Required
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Course typically offered: Distance Campus: Fall, Spring, Summer

Recommendations and additional information: Enrollment in the BSN: Integrative Health Subplan.

NURS 351C: Nursing Pathophysiology III (1 unit)

Description: This is the third in a series of three courses that provide a conceptual, integrative approach to selected pathophysiological phenomena and human responses to illness. This course is designed to give the student an understanding of pathophysiological concepts and their application to clinical practice. In addition, the course will integrate concepts related to aging, genetics-environmental factors, and emerging research topics that influence health and disease.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Course typically offered: Distance Campus: Fall, Spring, Summer

Recommendations and additional information: Enrollment in the BSN: Integrative Health Subplan.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 356: Foundations in Nursing Care (7 units)

Description: This course focuses on health promotion across the lifespan with clinical emphasis on physical assessment and fundamental technical skill development. Content includes: core competencies in professional role, therapeutic professional communication, nursing process and evidence-based practice. Clinical experience includes skills in the SILC, health promotion in the community, and experience in an inpatient setting. (This course is approved for Honors credit.)

Grading basis: Regular Grades

Career: Undergraduate

Course Components:	Laboratory	Required
	Lecture	Required

Course typically offered:

Main Campus: Fall, Spring

Recommendations and additional information: Concurrent registration: NURS 350, NURS 379, and NURS 472A. Admission to the College of Nursing.

Enrollment requirement: Major: NURSBSN.

Student Engagement Activity: Professional Development

Student Engagement Competency: Professionalism

NURS 366: Acute and Chronic Illness Management I (10 units)

Description: This course provides a comprehensive overview of nursing management of individuals with common acute and chronic illnesses across the lifespan (including pediatric & geriatric populations). Focus will be on application of nursing knowledge and skills to diverse populations which require interdisciplinary interventions for health restoration.

Grading basis: Regular Grades

Career: Undergraduate

Course Components:	Laboratory	Required
	Lecture	Required

Course typically offered:

Main Campus: Fall, Spring

Recommendations and additional information: NURS 350, NURS 379, NURS 379, NURS 356.

Enrollment requirement: Major: NURSBSN.

Student Engagement Activity: Professional Development

Student Engagement Competency: Professionalism

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 368: Nursing Care of the Childbearing Family (5 units)

Description: Nursing Care of the Childbearing Family includes theoretical concepts, principles, and techniques for providing care to the childbearing family. Clinical practice focuses on the application of theory and the provision of nursing care to women (gynecological, antepartal, intrapartal, and postpartal), newborns, and their families.

Grading basis: Regular Grades

Career: Undergraduate

Course Components:	Laboratory	Required
	Lecture	Required

Course typically offered:

Main Campus: Fall, Spring

Recommendations and additional information: NURS350, NURS379, NURS356. Concurrent registration, NURS 366.

Enrollment requirement: Major: NURSBSN.

Student Engagement Activity: Professional Development

Student Engagement Competency: Professionalism

NURS 370: Integrative Health/Wellbeing Assessment and Promotion (6 units)

Description: This theory course is focused on comprehensive health/wellbeing assessment of diverse healthy populations including adults, children, families, and communities. Principles of integrative health are explored to enhance health/wellbeing through culturally congruent, relationship-based nursing practice. Health promotion models/theories provide the basis for behavioral support and change strategies.

Grading basis: Regular Grades

Career: Undergraduate

Course Components:	Lecture	Required
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Course typically offered: Distance Campus: Fall, Spring, Summer

Recommendations and additional information: Enrollment in the BSN: Integrative Health Subplan.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 371: Nursing Field Immersion in Integrative/Health Wellbeing Assessment and Promotion (5 units)

Description: In this field immersion course, basic nursing skills essential to health/wellbeing assessment and promotion will be practiced in skills laboratory, simulation, acute care, and community-based care systems. Skill development will be focused on comprehensive health/wellbeing assessment; interprofessional and therapeutic communication; and clinical decision making with application of culturally congruent, evidence-based integrative therapeutics for health promotion.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Laboratory Required

Course typically offered: Distance Campus: Fall, Spring, Summer

Recommendations and additional information: Enrollment in the BSN: Integrative Health Subplan

NURS 379: Scholarly Inquiry in Evidence-Based Practice (2 units)

Description: This course is an overview of nursing knowledge development as a systematic yet innovative process linking research to professional nursing practice. The main goal is to help students learn about the research process and other important patterns of knowing that together comprise the larger picture of the scientific process and scholarly inquiry in nursing. Students will acquire knowledge and experiences to help them achieve the following: Integrate evidence-based knowledge into practice; critically read reports of research for their own practice; and develop beginning attributes of a nurse seeking knowledge through scientific and clinical inquiry.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Fall, Spring

Enrollment requirement: Major: NURSBSN.

Writing Emphasis: Writing Emphasis Course

NURS 380: Integrative Management of Common Conditions (6 units)

Description: This theory course is focused on nursing care for diverse individuals and families experiencing common acute and chronic physical and/or behavioral health conditions across the lifespan (including pediatrics, childbearing families, and geriatrics). Emphasis is on culturally congruent, evidence-based integrative therapeutics for the restoration/preservation of health/wellbeing.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Course typically offered: Distance Campus: Fall, Spring, Summer

Recommendations and additional information: Enrollment in the BSN: Integrative Health Subplan

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-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 381: Nursing Field Immersion in Integrative Management of Common Conditions (5 units)

Description: This field immersion course is focused on nursing care for diverse individuals and families experiencing common acute and chronic physical and/or behavioral health conditions across the lifespan (including pediatrics, childbearing families, and geriatrics). Emphasis is on culturally congruent, evidence-based integrative therapeutics for the restoration/preservation of health/wellbeing.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Laboratory Required

Course typically offered: Distance Campus: Fall, Spring, Summer

Recommendations and additional information: Enrollment in the BSN: Integrative Health Subplan

NURS 390: Quality, Safety, and Technology for Nursing Practice (2 units)

Description: This course provides a comprehensive overview of high quality, safe care, and patient-care technology. Focus will be on knowledge and application of the Institute of Healthcare Improvement (IHI) Open School Competencies in quality and safety as they relate to healthcare in nursing and patient-centered care. Students integrate knowledge related to quality and safety into patient-care technology. Concepts learned and applied in the course include professionalism, teamwork, and evidence-based practice.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Course typically offered: Distance Campus: Fall, Spring, Summer

NURS 399: Independent Study (1 - 5 units)

Description: Qualified students working on an individual basis with professors who have agreed to supervise such work.

Grading basis: Alternative Grading: S, P, F

Career: Undergraduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 99 times.

Course typically offered:

Main Campus: Fall, Spring

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 399H: Honors Independent Study (1 - 3 units)

Description: Qualified students working on an individual basis with professors who have agreed to supervise such work.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 99 times.

Course typically offered:

Main Campus: Fall, Spring

Enrollment requirement: Student must be active in the Honors College.

Honors Course: Honors Course

Honors Course: Honors Course

NURS 450: Integrative Management of Complex Conditions (7 units)

Description: This theory course is focused on nursing care of diverse individuals and families experiencing complex physical and/or behavioral health conditions across the lifespan. Emphasis is on culturally congruent, evidence-based integrative therapeutics for the restoration/preservation of health/wellbeing of individuals with severe and/or complicated care needs.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Course typically offered: Distance Campus: Fall, Spring, Summer

Recommendations and additional information: Enrollment in the BSN: Integrative Health Subplan.

NURS 451: Nursing Field Immersion in Integrative Management of Complex Conditions (6 units)

Description: In this field immersion course, clinical decision making with application of culturally congruent, evidence-based integrative therapeutics for restoration/preservation of health/wellbeing in the context of severe and/or complicated care needs across the lifespan will be practiced in skills laboratory, simulation, and inpatient/outpatient settings.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Laboratory Required

Course typically offered: Distance Campus: Fall, Spring, Summer

Recommendations and additional information: Enrollment in the BSN: Integrative Health Subplan

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-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 470: Acute and Chronic Illness Management II (10 units)

Description: This course provides a comprehensive overview of nursing management of individuals requiring high acuity care across the lifespan. Focus will be on application of nursing knowledge and skills to diverse populations which require interdisciplinary interventions for health restoration.

Grading basis: Regular Grades

Career: Undergraduate

Course Components:	Laboratory	Required
	Lecture	Required

Course typically offered:

Main Campus: Fall, Spring

Recommendations and additional information: NURS 366, NURS 368. Concurrent registration, NURS 471.

Enrollment requirement: Major: NURSBSN.

Student Engagement Activity: Professional Development

Student Engagement Competency: Professionalism

NURS 471: Mental Health Nursing (5 units)

Description: This course provides a comprehensive overview of therapeutic nursing management of individuals with common psychiatric disorders in a variety of mental health settings utilizing interpersonal relationship theory, mental health concepts, and biopsychosocial dynamics.

Grading basis: Regular Grades

Career: Undergraduate

Course Components:	Laboratory	Required
	Lecture	Required

Course typically offered:

Main Campus: Fall, Spring

Recommendations and additional information: NURS 366, NURS 368. Concurrent registration, NURS 470.

Enrollment requirement: Major: NURSBSN.

Student Engagement Activity: Professional Development

Student Engagement Competency: Professionalism

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 472A: Nursing Pharmacology (3 units)

Description: Pharmacodynamics, pharmacology, and adverse effects of commonly used drugs, with emphasis on clinical applications. Not available for elective credit in the College of Pharmacy or graduate credit in pharmacology-toxicology graduate programs. Enrollment in a nursing program, a health-related professions program, or a prior full-year course in medical terminology is strongly recommended.

Grading basis: Regular Grades

Career: Undergraduate

Course Components:

Equivalent to: PCOL 472A

Course typically offered:

Main Campus: Fall, Spring

Recommendations and additional information: PSIO 201, open only to nursing majors or with consent of course coordinator.

Enrollment requirement: Major: NURSBSN.

NURS 473: Population Health and Community Nursing (5 units)

Description: This course prepares baccalaureate nursing students as population focused nurse generalists. Through synthesis of nursing and public health sciences, students develop population-focused skills to promote and protect population health.

Grading basis: Regular Grades

Career: Undergraduate

Course Components:	Laboratory Lecture	May Be Offered Required
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Course typically offered:

Main Campus: Fall, Spring

Recommendations and additional information: NURS 470, NURS 471. Concurrent registration NURS 478, NURS 479.

Enrollment requirement: Major: NURSBSN.

Student Engagement Activity: Community Partnership

Student Engagement Competency: Civic and Community

NURS 474A: Pharmacological Therapeutics for Nursing I (1 unit)

Description: This is the first in a series of three courses that provides terminology and basic concepts involved with the approval and regulation processes, pharmacology, pharmacokinetics and pharmacodynamics, interactions, adverse effects and monitoring of commonly used drugs, with emphasis on clinical applications in various patient populations.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Course typically offered: Distance Campus: Fall, Spring, Summer

Recommendations and additional information: Enrollment in the BSN: Integrative Health Subplan

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 474B: Pharmacological Therapeutics for Nursing II (1 unit)

Description: This is the second in a series of three courses that provides terminology and basic concepts involved with the approval and regulation processes, pharmacology, pharmacokinetics and pharmacodynamics, interactions, adverse effects and monitoring of commonly used drugs, with emphasis on clinical applications in various patient populations.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Course typically offered: Distance Campus: Fall, Spring, Summer

Recommendations and additional information: Enrollment in the BSN: Integrative Health Subplan

NURS 474C: Pharmacological Therapeutics for Nursing III (1 unit)

Description: This is the third in a series of three courses that provides terminology and basic concepts involved with the approval and regulation processes, pharmacology, pharmacokinetics and pharmacodynamics, interactions, adverse effects and monitoring of commonly used drugs, with emphasis on clinical applications in various patient populations.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Course typically offered: Distance Campus: Fall, Spring, Summer

Recommendations and additional information: Enrollment in the BSN: Integrative Health Subplan

NURS 478: Nursing Leadership and Management in Health Systems (4 units)

Description: This course introduces core systems management and leadership content, including leadership roles and their application to a variety of health care settings.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Fall, Spring

Recommendations and additional information: Level 4 standing in the BSN Program

Enrollment requirement: Major: NURSBSN.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 479: Transition to the Professional Nursing Role (5 units)

Description: This course applies core management and leadership content, including leadership roles and their application to a variety of health care settings. Clinical practice provides a Clinical Preceptorship opportunity to perform in the roles of the professional nurse in various settings, to gain experience with critical thinking, and to apply theory to nursing practice with diverse client populations across the life span and in various stages of health.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Laboratory Required

Course typically offered:

Main Campus: Fall, Spring

Recommendations and additional information: Level 4 standing in the BSN Program.

Enrollment requirement: Major: NURSBSN.

Student Engagement Activity: Professional Development

Student Engagement Competency: Professionalism

NURS 498H: Honors Thesis (1 - 3 units)

Description: An honors thesis is required of all the students graduating with honors. Students ordinarily sign up for this course as a two-semester sequence. The first semester the student performs research under the supervision of a faculty member; the second semester the student writes an honors thesis.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Independent Study Required

Repeatable: Course can be repeated for a maximum of 9 units.

Course typically offered:

Main Campus: Fall, Spring

Enrollment requirement: Student must be active in the Honors College.

Honors Course: Honors Course

Honors Course: Honors Course

Student Engagement Activity: Discovery

Student Engagement Competency: Innovation and Creativity

Writing Emphasis: Writing Emphasis Course

NURS 499: Independent Study (1 - 5 units)

Description: Qualified students working on an individual basis with professors who have agreed to supervise such work.

Grading basis: Alternative Grading: S, P, F

Career: Undergraduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 99 times.

Course typically offered:

Main Campus: Fall, Spring

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 499H: Honors Independent Study (1 - 3 units)

Description: Qualified students working on an individual basis with professors who have agreed to supervise such work.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 99 times.

Course typically offered:

Main Campus: Fall, Spring

Enrollment requirement: Student must be active in the Honors College.

Honors Course: Honors Course

Honors Course: Honors Course

NURS 500A: Pathophysiology Across the Lifespan (3 units)

Description: This course examines pathophysiologic mechanisms that contribute to altered health states in individuals across the lifespan and populations.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Summer

Enrollment requirement: Major: NURSMS

NURS 501: Advanced Physiology and Pathophysiology (3 units)

Description: Examines selected physiologic and pathophysiologic phenomena that occur in health and illness, across the lifespan, in the areas of cellular and molecular physiology, immunology, neurophysiology, endocrine, cardiovascular, blood and muscle physiology, and pulmonary, renal, and digestive physiology.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Spring

Online Campus: Spring

Recommendations and additional information: Graduate status in Nursing.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 507: Health Assessment Across the Lifespan (2 units)

Description: This course focuses on holistic health assessments of newborn, children, adult and older adult. It includes techniques for history taking and interviewing, physical and mental assessment, risk assessment, and development of client databases.

Grading basis: Regular Grades

Career: Graduate

Course Components:	Laboratory	Required
	Lecture	Required

Course typically offered:

Main Campus: Summer

Recommendations and additional information: Admission to MEPN Pathway. Concurrent registration: NURS 500A, NURS 509A, NURS 509B.

Enrollment requirement: Major: NURSMS

NURS 509A: Concepts and Competencies Across the Lifespan I (4 units)

Description: This course focuses on health promotion and health transition: the nursing care of the childbearing family and the older adult, and basic nursing skill development, including maternal-newborn and older adult skills.

Grading basis: Regular Grades

Career: Graduate

Course Components:	Laboratory	Required
	Lecture	Required

Course typically offered:

Main Campus: Summer

Recommendations and additional information: Concurrent registration: NURS 500A, NURS 507, NURS 509B.

Enrollment requirement: Major: NURSMS

NURS 509B: Provider of Care I: Practice Competencies (3 units)

Description: This clinical course focuses on the application of theory in the care of child-bearing families and older adults in various clinical settings. A total of 135 clinical hours is required for this course.

Grading basis: Regular Grades

Career: Graduate

Course Components:	Laboratory	Required
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Course typically offered:

Main Campus: Summer

Recommendations and additional information: Admission to MEPN Pathway. NURS 500A, NURS 507, NURS 509A.

Enrollment requirement: Major: NURSMS

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 510: Professional Nursing Seminar (1 unit)

Description: This course focuses on the history of nursing, current issues in nursing, the health care team, and the ethical and legal precepts that guide nursing.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Spring

Recommendations and additional information: Prerequisite courses; NURS 519A, NURS 519B, NURS 572A. Concurrent registration: NURS 511, 512, 610A, 610B.

Enrollment requirement: Major: NURSMS

NURS 511: Nursing Informatics From Concepts to Practice (2 units)

Description: This course focuses on the use of patient care technologies to deliver care; communication technologies to coordinate care; data management techniques; and health information management for evidenced-based care and health education.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Spring

Recommendations and additional information: Prerequisite courses; NURS 519A, NURS 519B, NURS 572A. Concurrent registration; NURS 511, 512, 610A, 610B.

Enrollment requirement: Major: NURSMS

NURS 512: Nursing Research for Evidence Based Practice (3 units)

Description: This course focuses on the elements of the research process needed to generate evidence and current models and strategies available to critically appraise and guide implementation of evidence-based practice.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Spring

Recommendations and additional information: Prerequisite courses; NURS 519A, NURS 519B, NURS 572A. Concurrent registration; NURS 510, 511, 610A, 610B.

Enrollment requirement: Major: NURSMS

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-**CC** represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 513: Leading and Managing in Organizational Systems (3 units)

Description: This course focuses on nursing leadership and management in the context of complex health care organizations.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Summer

Recommendations and additional information: Prerequisite courses; NURS 510, 511, 512, 610A 610B. Concurrent registration; NURS 611, 614.

Enrollment requirement: Major: NURSMS

NURS 519A: Concepts and Competencies Across the Lifespan II (5 units)

Description: This course focuses on the knowledge bases underlying nursing management of children, adults, and older adults with altered health conditions. The skills addressed in this course relate to the care of individuals experiencing altered health conditions.

Grading basis: Regular Grades

Career: Graduate

Course Components: Laboratory Required
 Lecture Required

Course typically offered:

Main Campus: Fall

Recommendations and additional information: NURS 500A, NURS 507, NURS 509A, NURS 509B. Concurrent registration: NUS 572A, NURS 519B.

Enrollment requirement: Major: NURSMS

NURS 519B: Provider of Care II: Altered Health Conditions (7 units)

Description: This clinical course focuses on the application of intermediate and complex skills necessary for nursing care of persons across the lifespan, including integration and application of pharmacologic therapies, who are experiencing altered health conditions. A total of 315 clinical hours is required for the course.

Grading basis: Regular Grades

Career: Graduate

Course Components: Laboratory Required

Course typically offered:

Main Campus: Fall

Recommendations and additional information: NURS 500A, NURS 507, NURS 509A, NURS 509B. Concurrent registration: NURS 572A, NURS 519A.

Enrollment requirement: Major: NURSMS

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-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 520: Foundations of Systems Leadership (3 units)

Description: Learners will explore basic concepts related to the healthcare system, professional knowledge, and quality and safety using a systems perspective.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered: Online Campus: Fall, Spring, Summer

NURS 521: Evidence-Based Practice Improvement (4 units)

Description: Learners will analyze and apply evidence for selected areas of clinical practice to facilitate optimal patient outcomes. Evidence will be used to develop, validate, and endorse strategies for system-wide practice improvements.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered: Online Campus: Fall, Spring, Summer

NURS 540: Health Promotion and Risk Reduction (4 units)

Description: Learners will apply concepts of health promotion and risk reduction at the individual and interpersonal level of care. Emphasis will be placed on evidence-based strategies that acknowledge patient-centered values and beliefs in the process of optimizing health and well-being.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered: Online Campus: Fall, Spring, Summer

NURS 541: Population Health (4 units)

Description: Learners will apply concepts related assessment, surveillance, and interventions for risk reduction, disease prevention, and health promotion in populations and communities. Multiple perspectives of vulnerability (including cross cultural) will be emphasized.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered: Online Campus: Fall, Spring, Summer

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 542: Pediatric Pharmacotherapeutics (1 unit)

Description: This course is designed to enhance the student's understanding of specific pharmacotherapeutic considerations in the pediatric population.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Spring

Online Campus: Spring

Recommendations and additional information: NURS 501, NURS 572, NURS 609A, NURS 642A.

NURS 543: Health Information and Patient Care Technologies (3 units)

Description: Learners will evaluate and apply emergent healthcare technologies such as point of care clinical decisional support, telehealth/ medicine, and electronic documentation that support patient-provider communication, interprofessional practice, and coordinated patient care delivery.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered: Online Campus: Fall, Spring, Summer

NURS 545: Healthcare Environments and Care Coordination (4 units)

Description: Learners will examine health policy and regulation, health economics, and advocacy across the health care continuum. Learners will also apply advocacy strategies to transition at risk individuals across the health care continuum.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered: Online Campus: Fall, Spring, Summer

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-CC represents a Correspondence Course offering

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NURS 574: Pharmacology in Acute Care (1 unit)

Description: This course is designed to develop competency in assessment, prescription and evaluation of pharmacotherapeutic regimens for patients across the adult-older age spectrum that are acutely or critically ill. Analysis of selected health problems is integrated with the development of evidence based clinical pharmacological management of these problems.

Grading basis: Regular Grades

Career: Graduate

Course Components:	Lecture	Required
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Course typically offered:

Main Campus: Spring

Online Campus: Spring

Recommendations and additional information: Prerequisite or concurrent registration, NURS 572. NURS 501. NURS 609A.

NURS 575: Nurse Anesthesia Pharmacology (3 units)

Description: This course provides the scientific underpinnings needed to plan the anesthetic pharmacological management of patients across the health care continuum.

Grading basis: Regular Grades

Career: Graduate

Course Components:	Lecture	Required
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Course typically offered: Online Campus: Spring

Recommendations and additional information: NURS 671A

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 585: Chronic Disease Counseling in Spanish for Latinos (3 units)

Description: Language barriers compromise the quality of health care for millions of Spanish speaking patients each year. Spanish speaking patients, for example, have disease, mortality, and pain burdens at least twice as high as English speaking patients. Latinos bear a high burden of diabetes and diabetes-related health concerns compared to non-Latinos. These facts make language a crucial concern for the improvement of health among Latinos in the US, generally, and Arizona, in particular. Nurse practitioners are uniquely positioned in the healthcare arena to provide quality care to these patients. Through development of communication techniques in Spanish, nurse practitioners can provide patients language concordant care. It is known that language concordant care improves outcomes more than care provided through interpreter services. This course introduces students to the linguistic forms and pragmatic features of Spanish discourse about health and wellness. Students will learn the theoretical and humanistic underpinnings of patient-centered communication and how care delivered in a patient-centered manner can improve health and wellness outcomes. Students will engage in furthering their Spanish language abilities through peer-to-peer interactions and practice with standardized patients. In order to facilitate patient-centered dialogues, students will learn clinical conversation techniques, as well as facets of Latino culture relevant to diabetes and chronic care.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Repeatable: Course can be repeated a maximum of 2 times.

Course typically offered:

Main Campus: Summer

Online Campus: Summer

Recommendations and additional information: NURS 501.

NURS 596L: National Health Care Systems (1 unit)

Description: This seminar course will compare US healthcare delivery systems with the national health care systems of 12 other industrialized nations. Each of these 12 nations has a health care system that covers all or nearly all of its citizens. Each nation is a member of OECD which has collected comparative health care data on each country since 1960.

Grading basis: Alternative Grading: S, P, F

Career: Graduate

Course Components: Seminar Required

Equivalent to: MEDI 596L, NURS 596L, PCOL 596L, PHSC 596L

Also offered as: MEDI 596L, PCOL 596L, PHPM 596L, PHSC 596L

Home department: Community, Environment & Pol

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 599: Independent Study (1 - 4 units)

Description: Qualified students working on an individual basis with professors who have agreed to supervise such work. Graduate students doing independent work which cannot be classified as actual research will register for credit under course number 599, 699, or 799.

Grading basis: Alternative Grading: S, P, F

Career: Graduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 99 times.

Course typically offered:

Main Campus: Fall, Spring, Summer

Online Campus: Fall, Spring, Summer

NURS 600D: Emerging Research in Aging and Healthcare (3 units)

Description: This course is designed to provide students with the opportunity to examine research and theoretical perspectives on key issues related to older adults. Students explore normative aging; functional decline and disability; aging and social policy, including care delivery models and care transitions; the aging family and caregiving, transcultural issues; and special considerations in conducting research with older adults.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Fall

NURS 609A: Health Assessment (3 units)

Description: Advanced health assessment across the lifespan. Includes techniques in history taking, physical exams, development of client databases, health risk assessment, implementation and evaluation of health promotion activities.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Fall

Online Campus: Fall

Recommendations and additional information: Course prerequisite of NURS 501

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: This focus of this course is the physical examination and assessment of the pediatric patient from birth through adolescence. The course serves as an introduction to the advanced practice nurse learning to perform a physical examination on pediatric patients and will include an in-depth review of anatomy, physical assessment, and examination techniques, in the context of the child's developmental level, including differentiation of normal and abnormal findings. Finally, the course will provide a foundation for collecting and documenting a comprehensive history in addition to the physical assessment findings. Students will be expected to perform a well-organized comprehensive physical assessment.

Online Campus: Fall

Description: This course focuses on theories of nursing management of individuals experiencing complex health problems, including critical illness and behavioral health disorders. The course also addresses skills related to nursing responsibilities in emergency preparedness.

Main Campus: Spring

Enrollment requirement: Major: NURSMS

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 610B: Provider of Care III: Complex Health Problems (3 units)

Description: This clinical course explores the role of clinical provider of care through the application and synthesis of conceptual, assessment, nursing skills, knowledge and attitudes. Students will receive clinical experience in the care of patients in complex and high acuity settings including the integration and application of pharmacological therapies.

Grading basis: Regular Grades

Career: Graduate

Course Components: Laboratory Required

Course typically offered:

Main Campus: Spring

Recommendations and additional information: Prerequisite courses; NURS 519A, NURS 519B, NURS 572A. Concurrent registration; NURS 510, 511, 512, 610A.

Enrollment requirement: Major: NURSMS

NURS 610C: Provider of Care IIIC: Providing Integrated Care in Diverse and Behavioral Health Settings (2 units)

Description: This clinical course focuses on synthesis of integrated medical-surgical and behavioral nursing in diverse and behavioral settings. Practicum experiences explore roles of nurses providing community-based and patient-and family-centered care with patients experiencing mental illness, frailty, vulnerable conditions, end-of-life care, and associated applied integrative or pharmacologic therapies.

Grading basis: Regular Grades

Career: Graduate

Course Components: Laboratory Required

Course typically offered:

Main Campus: Spring

NURS 611: Population and Community Health Nursing (4 units)

Description: This course focuses on population health and community nursing through community assessment, program planning, implementation, management, and evaluation for culturally relevant, evidence-based nursing health promotion and disease prevention interventions with aggregates and communities. Partnership with communities fosters implementation of population health promotion and disease prevention. A total of 90 clinical hours is required for this course.

Grading basis: Regular Grades

Career: Graduate

Course Components: Laboratory Required
Lecture Required

Course typically offered:

Main Campus: Summer

Recommendations and additional information: Prerequisite courses; NURS 510, NURS 511, NURS 512, NURS 610A, NURS 610B. Concurrent registration; NURS 513, 614.

Enrollment requirement: Major: NURSMS

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 612: Pediatrics in Advanced Practice (2 units)

Description: This primary care course is designed to prepare the FNP student with skills in children's health promotion, disease prevention, and assessment/management of common health problems in children and families. In other clinical management courses in the FNP option, students will apply theoretical, scientific and evidence-based knowledge obtained in this course in supervised practicums to manage patients across the lifespan.

Grading basis: Regular Grades

Career: Graduate

Course Components:	Laboratory	Required
	Lecture	Required

Course typically offered:

Main Campus: Spring

Online Campus: Spring

Recommendations and additional information: NURS 501, NURS 572, NURS 609A; concurrent registration, NURS 620A and NURS 620B.

NURS 613A: Palliative Care I: Fundamentals of Palliative Care (3 units)

Description: In this course students will learn fundamental theory and practice of palliative care in the physical, psychosocial, and spiritual domains. They will critically examine palliative care models and the evidence upon which they are based, in order to inform nursing practice and research in palliative and end-of-life care. This course is suitable for both DNP and PhD students who are considering palliative care as an area for specialty practice, quality improvement, and/or research.

Grading basis: Regular Grades

Career: Graduate

Course Components:	Lecture	Required
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Course typically offered:

Main Campus: Summer (odd years only)

Online Campus: Summer (odd years only)

Recommendations and additional information: Admission to the College of Nursing.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: This course builds upon the course content of Palliative Care I (613A). Students will acquire advanced knowledge in palliative care for special populations including communication, comprehensive symptom assessment, and symptom management in the physical, psychosocial, and spiritual realms. Students will critique palliative care research and evidence for current practice. This course is suitable for both DNP and PhD students who are considering palliative care as an area for specialty practice, quality improvement, or research.

Online Campus: Summer (even years only)

Main Campus: Summer

Enrollment requirement: Major: NURSMS

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 615: Adult Gerontology: Diagnosis and Management of Chronic and Acute Illness-I
(4 - 6 units)

Description: This course is designed to develop theoretical and clinical competencies in the care of the acute and chronically ill adult across the adult-older adult age spectrum, including care of the frail older adult. The course builds on concepts and skills derived from prerequisite courses and focuses on evidence-based clinical decision-making, to support diagnosis and management of the acute and chronically ill patient across the continuum of care, from illness to wellness. The clinical portion of the course allows the students to apply theoretical, scientific, and evidence-based clinical knowledge in a supervised practicum to manage patients across the adult-older adult age spectrum, including the frail older adult.

Grading basis: Regular Grades

Career: Graduate

Course Components:	Laboratory	Required
	Lecture	Required

Course typically offered:

Main Campus: Spring

Online Campus: Spring

Recommendations and additional information: NURS 501, NURS 609A. Concurrent registration, NURS 572, NURS 574.

NURS 616: Adult-Gerontology Diagnosis and Management of Chronic and Acute Illness - II
(5 units)

Description: This course is designed to continue the acquisition of knowledge and skills begun in NURS 615, Diagnosis & Management of Chronic and Acute Illness - I. The focus is on further development advanced practice skills in the management of chronically and acutely ill patients. Acquisition of collaborative management skills in the care of critically ill patients is also emphasized. Applicable nutritional science concepts are explored. Study of the psychological and biochemical alteration that occur during disease states and their effect on nutritional requirements and methods of providing nutrients is included. (180 clinical hours)

Grading basis: Regular Grades

Career: Graduate

Course Components:	Laboratory	Required
	Lecture	Required

Course typically offered:

Main Campus: Summer

Online Campus: Summer

Recommendations and additional information: NURS 615

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 620A: Introduction to Primary Care (3 - 5 units)

Description: The basic concepts and knowledge needed to assess and manage acute and chronic stable health problems and preventive/wellness care of individuals across the lifespan, including special populations (pediatrics, pregnancy, and older adults) are covered in this course. Emphasis will be placed on evidence-based, clinical decision-making based on the pathophysiology of the disease process; the use of diagnostic procedures as aids to clinical decision-making and management of the clinical course of illness both pharmacologically and non-pharmacologically. Multi-faceted outcome-based interventions will be discussed and evaluated including: culture and environment, ethics, family theory, complementary and alternative therapies, interdisciplinary approaches, and education and health promotion.

Grading basis: Regular Grades

Career: Graduate

Course Components:	Laboratory	Required
	Lecture	Required

Course typically offered:

Main Campus: Spring

Online Campus: Spring

Recommendations and additional information: NURS 501, NURS 609A.

NURS 620B: Advanced Primary Care (5 units)

Description: The advanced concepts and knowledge needed to assess and manage acute and chronic health problems prevalent in individuals across the lifespan are covered in this course. It builds on the skills and knowledge developed in the first Primary Care Management Course (620A), health assessment, advanced pathophysiology, and pharmacology. Emphasis will be placed on evidence-based clinical decision make. A clinical practicum experience allows the student to apply didactic content.

Grading basis: Regular Grades

Career: Graduate

Course Components:	Laboratory	Required
	Lecture	Required

Course typically offered:

Main Campus: Summer

Online Campus: Summer

Recommendations and additional information: NURS 620A

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: The focus of this course is the role of the Pediatric Nurse Practitioner in screening, assessment and diagnosis of autism spectrum disorder in the pediatric population. Through didactic and clinical experiences, this course provides an overview of autism spectrum disorder (ASD). Content addresses the natural history, etiology, rising prevalence, risk factors, and core features. Taking a developmental approach, students begin case management and follow a family through screening, diagnosis and treatment planning. Key information is elaborated through case studies. The course highlights the important and evolving role of pediatric nurse practitioners in the prevalence, etiology, screening, assessment and diagnosis of ASD in the pediatric patient. Clinical experiences focus on screening and diagnosis of the pediatric patient with ASD. A clinical practicum experience allows the student to apply didactic content.

Career: Graduate

Course typically offered: Online Campus: Fall

Field trip: None.

Description: The focus of this course is the role of the Pediatric Nurse Practitioner in the diagnosis and management of autism spectrum disorder. In addition, the course will focus on treatment approaches to the management of acute and chronic problems of autism spectrum disorder in the pediatric population. Approaches to behavioral, psychological and medical comorbidities are discussed in the didactic setting and further explored in the clinical practicum. Students clinical practicum build on the previous semester and continue with the application of dialectic instruction to patient and family care in ASD.

Career: Graduate

Course typically offered: Online Campus: Spring

Field trip: None.

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: The focus of this course is the role of the Pediatric Nurse Practitioner in leadership and advocacy in autism spectrum disorder. Emphasis is on the synthesis of graduate-certificate ASD content in clinical practice. Practical issues of collaboration and reimbursement for services are explored. A clinical practicum experience allows the student to apply didactic content.

Career: Graduate

Course typically offered: Online Campus: Summer

Field trip: None.

Description: This course provides a foundational knowledge of counseling and psychotherapy. - Students will be introduced to individual, group, and family therapies with emphasis on delivery to patients across the lifespan- Influences such as biology, emotion, social, family, cultural and spiritual beliefs and knowledge will be reviewed.- Course assignments will require use of appropriate and relevant research findings, while emphasizing health promotion, health protection, disease prevention, and treatment.- Course assignments will help students identify and describe the therapeutic relationship including transference and counter-transference.

Career: Graduate

Enrollment requirement: NURS 501 is a pre-requisite which can be taken at the University of Arizona (an acceptable equivalent may be substituted) AND NURS 751 is a co-requisite (an acceptable equivalent may be substituted).

Description: This course examines principles of statistical inference and their application to the analysis and interpretation for answering practice questions. Students gain experience in interpreting quantitative data.

Career: Graduate

Course typically offered:

Online Campus: Fall

Recommendations and additional information: Admission to CON graduate program.

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: This course is the first of three core courses that leads to eligibility for advanced practice and national certification as a family psychiatric mental health nurse practitioner (FPMHNP). * Students will learn advanced mental health assessment across the lifespan; Advanced techniques in assessment, differential diagnosis, pharmacological, and therapeutic management of mental health conditions and psychiatric disorders will be applied to the development of patient data bases.* Emphasis will be placed on bio-psycho-social and cultural mental health assessment and management utilizing appropriate research findings, while emphasizing health promotion, health protection, disease prevention, and treatment* The clinical practicum portion of the course requires the student to be supervised in assessing individuals across the lifespan for their short-term and long-term mental and emotional functioning, and in the planning, implementation, and evaluation of pharmacological and non-pharmacological management.

Online Campus: Spring

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 629B: Advanced Family Psychiatric-Mental Health Nursing II (3 - 5 units)

Description: This course is the second of three core courses that leads to eligibility for advanced practice and national certification as a family psychiatric mental health nurse practitioner (PMHNP). NURS 629B builds on the knowledge and clinical skills gained in NURS 629A, Advanced Psychiatric-Mental Health Nursing I. Students will expand upon and apply advanced mental health assessment skills across the lifespan.* Advanced techniques in assessment, differential diagnosis, pharmacological and non-pharmacologic therapeutic management of mental health conditions and psychiatric disorders will be applied in greater depth for improved development of patient data bases.* Emphasis will be placed on expanding knowledge of bio-psycho-social and cultural mental health assessment and management utilizing appropriate research findings, while emphasizing health promotion, health protection, disease prevention, and pharmacologic as well as non-pharmacologic treatment across the life span. * The clinical practicum portion of the course requires the student to function with minimal supervision while working towards autonomous practice as a family psychiatric mental health nurse practitioner with knowledge and abilities in psychotherapy, psychopharmacology and capabilities to provide direct care to people across the lifespan whose behavior indicates psychiatric-mental health needs.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Summer

Online Campus: Summer

Recommendations and additional information: Prerequisite: NURS 629A.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 629C: Advanced Family Psychiatric Mental Health Nursing III: Focus on child and adolescent. (2 units)

Description: This core course focuses on psychiatric disorders, mental health concerns, and health promotion among children and adolescents and provides content necessary for advanced practice and national certification as a family psychiatric mental health nurse practitioner (FPMHNP). * Students will learn advanced mental health assessment for children and adolescents.* Advanced techniques in assessment, differential diagnosis, pharmacological, and therapeutic management of mental health conditions and psychiatric disorders will be applied to the development of patient data bases.* Emphasis will be placed on bio-psycho-social and cultural mental health assessment and management utilizing appropriate research findings, while emphasizing health promotion, health protection, disease prevention, and treatment* The clinical practicum portion of the course requires the student to be supervised in assessing children and adolescent patients/clients for their short-term and long-term mental and emotional functioning, and in the planning, implementation, and evaluation of pharmacological and non-pharmacological management

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Spring

Online Campus: Spring

Recommendations and additional information: Prerequisite: NURS 629A.

NURS 630: Statistics for the Health Sciences (3 units)

Description: Advanced statistics builds on the foundation provided in a graduate level statistics course by reviewing basic concepts and building on these concepts to expand our understanding of the research process. Experiences within the course are intended to provide the necessary competencies to perform simple and multiple linear and logistic regressions; mixed designs analysis, growth mixture modeling, and latent class growth analysis. STATA, an established statistical software program will be used in the learning of these techniques.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Repeatable: Course can be repeated a maximum of 2 times.

Course typically offered:

Main Campus: Fall

Online Campus: Fall

Recommendations and additional information: Graduate Nursing Status.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 631: Advanced Statistics for the Health Sciences (3 units)

Description: Advanced statistics builds on the foundation provided in a graduate level statistics course by reviewing basic concepts and building on these concepts to expand our understanding of the research process. Experiences within the course are intended to provide you with the necessary competencies to appropriately perform simple and multiple linear and logistic regressions; mixed designs analysis, growth mixture modeling, and latent class growth analysis. We will be learning these statistical techniques using an established statistical software program, STATA 14 Graduate Pack Standard.

Grading basis: Regular Grades

Career: Graduate

Course Components:	Lecture	Required
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Repeatable: Course can be repeated a maximum of 2 times.

Course typically offered:

Main Campus: Spring

Enrollment requirement: NURS 630

NURS 634: Data Management in Healthcare Systems (3 units)

Description: [Taught odd numbered years] Focuses on development and maintenance of healthcare databases for application in solving healthcare problems. Design methods, database structures, indexing, data dictionaries, retrieval languages, and data security are presented.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Equivalent to: CPH 634, IRLS 634, PHL 634

Also offered as: HPS 634, LIS 634, PHPM 634

Course typically offered:

Main Campus: Spring

Recommendations and additional information: NURS 646 or equivalent. Experience with database software applications, or equivalent course and consent of instructor.

-SA represents a Student Abroad & Student Exchange offering

-**CC** represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 638: Conceptual Foundations for Rural Health Nursing (1 unit)

Description: The purpose of this course is to build a conceptual basis for understanding rural nursing practice. The rural phenomenon of interest to nursing and the three dimensions that characterize it (occupational, ecological, and sociocultural) will be explored in relationship to the nature of rural nursing practice and research. Middle-range theory from other disciplines that are relevant to rural nursing will be discussed. Rural nursing practice will be examined broadly on parameters such as regulatory issues, workforce preparation and distribution, rural vs. urban nursing practice characteristics, as well as various local, state, federal, and international perspectives that impact rural nursing practice. Strategies for intervening with rural populations will be analyzed.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Spring

Online Campus: Spring

Recommendations and additional information: Graduate Status in Nursing.

NURS 640: Healthcare Business Dynamics (3 units)

Description: Learners will apply business concepts and principles across a variety of healthcare settings. Concepts include the following: organizational structure and finance, budgeting, cost-benefit analysis, marketing, resource allocation, innovation, and entrepreneurship. Business values consistent with patient-centered care will be highlighted.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered: Online Campus: Fall, Spring, Summer

NURS 641: Leadership for Patient Centered Care (4 units)

Description: Learners will explore principles of shared leadership, team dynamics, and interprofessional practice as the foundation of patient-centered care. Emphasis is placed on mediation, negotiation, conflict resolution, collaboration, and consultation.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered: Online Campus: Fall, Spring, Summer

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: This course will explore history, definitions, and applications related to health policy, economics, and advocacy. Students will be prepared to discuss the complexities of health policy development, implementation, and evaluation, to engage in comparative analysis of the U.S. and international health care systems, and to understand the role of policy competency and advocacy in advanced practice nursing and nursing science.

Career: Graduate

Course typically offered:

Main Campus: Spring

Online Campus: Spring

Description: This course focuses on the role of the Pediatric Nurse Practitioner in health detection, promotion and prevention in pediatric primary health care. Research and theory are used to identify strategies to provide primary care of the well child. This course is designed to develop theoretical and clinical competencies in the care of the well child and adolescent. The course builds on concepts and skills derived from prerequisite courses and focuses on developing advanced practice skills in comprehensive assessment, diagnosis and management strategies of the well child and adolescent. A clinical practicum experience allows the student to apply didactic content.

Career: Graduate

Course typically offered:

Main Campus: Spring

Online Campus: Spring

-SA represents a Student Abroad & Student Exchange offering
-CC represents a Correspondence Course offering
May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 642B: Primary Care of Acute and Chronic Conditions in Children (6 units)

Description: The focus of this course is the role of the Pediatric Nurse Practitioner in health promotion, diagnosis and management of acute and chronic illnesses in pediatric primary health care practice. Research and theory are used to identify strategies integral to advanced nursing practice for the promotion of health and prevention of illness. Diagnosis and management of acute and chronic illnesses in children and adolescents will involve critical thinking processes required for assessment and development of differential diagnosis and therapeutic interventions.

Grading basis: Regular Grades

Career: Graduate

Course Components:	Laboratory	Required
	Lecture	Required

Course typically offered:

Main Campus: Summer

Online Campus: Summer

Recommendations and additional information: NURS 642A

NURS 646: Healthcare Informatics: Theory and Practice (3 units)

Description: This course focuses on the theoretical basis of healthcare informatics with an emphasis on management and processing of healthcare data, information, and knowledge. Healthcare informatics technology, national regulations, organizational issues, and future trends are addressed

Grading basis: Regular Grades

Career: Graduate

Course Components:	Lecture	Required
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Equivalent to: IRLS 646

Also offered as: LIS 646

Course typically offered:

Main Campus: Summer

Online Campus: Summer

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 647: Human Factors in Health Information Technology (3 units)

Description: This course is designed to describe the role of human factors in the design, analysis and evaluation of health information technology. The interaction between the human and the machine will be described as background to which the health information technology fits and reshapes the completion of tasks and the extent to which performance can be supported across settings. Students will begin with a focus on elements of human factors that influence performance, learn approaches to design and analysis that account for human factors and evaluate dimensions of usability and user experience applied to Health Information Technology (HIT).

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Fall

NURS 648: Healthcare Informatics: Theory and Research (3 units)

Description: The intended audience for NURS 648 is the student who is advancing their knowledge of health informatics through a substantive focus in informatics for PhD and as a future leader in health informatics seeking a DNP with Informatics specialty. This course focuses on the theoretical basis of healthcare informatics with an emphasis on management and processing of healthcare data, information, and knowledge. This course is guided by communication theory and will address the following: models used in healthcare informatics, healthcare technologies, human-computer interaction, and database design, artificial intelligence and machine learning, technology guided decision-making, predictive analytics, national issues and policy implications and continued advancements in healthcare technology.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Fall

Online Campus: Fall

Recommendations and additional information: Admission to College of Nursing doctoral program or IRLS graduate program or permission of the instructor.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: Focuses on contemporary organizational theories as they apply to complex healthcare systems. Emphasis is placed on application of theory to organizational analysis and decision making.

Online Campus: Fall

Course typically offered: Online Campus: Fall, Spring, Summer

Course typically offered: Online Campus: Fall, Spring, Summer

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 656: The Nurse Educator Role (3 units)

Description: This course provides a foundation in the role of the nurse educator and evidence-based strategies for nursing education. Students will explore current research, other scholarly evidence, and various theoretical perspectives of teaching and learning. The course is intended to prepare future educators to employ effective teaching strategies in classroom, simulation laboratory, clinical, and online educational settings to meet the needs of diverse learners. Discussion of managing various challenges related to nursing education will be included throughout the course.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Fall, Spring, Summer

Online Campus: Fall, Spring, Summer

Recommendations and additional information: Enrollment in a graduate nursing program.

Field trip: None.

NURS 657: Outcome-focused Program Design (3 units)

Description: This course introduces the learner to evidence-based principles of curriculum design, formulation of program outcomes, and formative and summative outcome evaluation. Learners will evaluate current research and evidence on course planning with a focus on educational strategies and learning activities that facilitate student learning and appropriate methods of evaluation in a variety of settings. An emphasis will be placed on effective communication between teacher and student and sensitivity to varying needs of students based on culture, disabilities, and educational background.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Fall, Spring, Summer

Online Campus: Fall, Spring, Summer

Recommendations and additional information: Enrollment in a graduate nursing program.

Field trip: None.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: This course provides an evidence-based foundation in assessment, measurement, and evaluation strategies for nursing education. Students will explore current research and other scholarly evidence, related to evaluation and practical application of strategies. The course is intended to prepare students to utilize strategies of measurement and assessment in identifying practice gaps and learning needs, developing exams, interpreting exam results, assessing clinical performance/competency, and evaluating written assignments.

Career: Graduate

Course typically offered:

Online Campus: Fall, Spring, Summer

Field trip: None.

Description: Learners will assume a leadership role, under the guidance of a faculty mentor, to develop a comprehensive plan for improvement of a selected chronic disease target population's health status, based on patient-centered systems leadership concepts. Emphasis will be placed on the integration of key program concepts through an integrated online leadership immersion experience. This course will be completed over a full semester.

Career: Graduate

Course typically offered: Online Campus: Fall, Spring, Summer

Recommendations and additional information: Admission to the RN-MSN program and completion of all required courses in either the ADN or BSN program of study. Students in the BSN subplan may elect to take NURS 540 concurrently with NURS 660.

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 660B: Clinical Systems Leadership Immersion (5 units)

Description: Learners will integrate graduate level knowledge in pathophysiology, assessment, and pharmacology into focused clinical care projects. In addition, students will assume a role on a leadership team and develop a comprehensive and coordinated care management plan for an at-risk population. Emphasis will be placed on the synthesis and integration of key program concepts using a clinical application approach. This course will be completed over a 16 week period.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered: Online Campus: Fall, Spring, Summer

Recommendations and additional information: All courses in the RN-MS curriculum must be completed prior to beginning this course; BSN track students may take this course concurrently with NURS 540.

NURS 665: Advancing Innovations Through Effective Design (3 units)

Description: This course focuses on applying principles of entrepreneurship, innovation and ingenuity to develop and implement strategies designed to support patient outcomes and organizational priorities in complex health care systems. Emphasis is placed on health system assessment, creative planning, and leveraging health system resources to achieve optimal patient outcomes.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered: Online Campus: Fall

Recommendations and additional information: Admission to the Doctor of Nursing Practice Program

NURS 667: Resourcing for Growth and Sustainability (3 units)

Description: This course focuses on assessing, developing, and evaluating business programs and organization systems to support healthcare sustainability. Emphasis is placed on incorporating key indicators and current financial concepts to the role of DNP as leader in healthcare growth and organizational sustainability.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered: Online Campus: Spring

Recommendations and additional information: Completion of NURS 665

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 668: Influential Leadership in Health Systems (3 units)

Description: This course focuses on integrating the principles of change management and theory to complex healthcare systems. The elements of emotional intelligence are identified and applied to principles of effective healthcare leadership. Key strategies to establish and sustain organizational influence in the executive leadership role are developed.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered: Online Campus: Summer

Recommendations and additional information: Completion of NURS 665 & NURS 667

NURS 669: Health Systems Executive Leadership Synthesis (3 units)

Description: This course focuses on building collaborative interprofessional and Intraprofessional relationships to create and sustain a trusting environment within the health system, as well as, strategies to develop effective partnerships within the external community. Key principles of conflict resolution are examined and applied to challenging leadership scenarios. The role of executive nurse leader in high level organizational decision making based on benchmarking of quality and financial indicators will be explored.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered: Online Campus: Fall

Recommendations and additional information: Completion of NURS 665, NURS 667 & NURS 668

NURS 670: Bioscience for Nurse Anesthesia Practice (2 units)

Description: This course is designed to apply advanced principles of math, chemistry and physics as they pertain to the provider. This course builds on foundational knowledge previously acquired in these subjects. Emphasis is placed on the application of these concepts.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Summer

Online Campus: Summer

Recommendations and additional information: Enrollment in the Nurse Anesthesia Specialty Track

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 671A: Foundations of Nurse Anesthesia I (2 units)

Description: This course is the first of two courses that will provide an overview of foundational principles related to the practice of nurse anesthesia. Emphasis is placed on learning and applying foundational skills, principles and theories to the perioperative anesthetic management of patients across the lifespan.

Grading basis: Regular Grades

Career: Graduate

Course Components:	Lecture	Required
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Course typically offered: Online Campus: Fall

Recommendations and additional information: NURS 501 and NURS 670.

NURS 671B: Foundations of Nurse Anesthesia II (2 units)

Description: This course is the second of two courses that will provide an overview of foundational principles related to the practice of nurse anesthesia. Emphasis is placed on learning and applying foundational skills, principles and theories to the perioperative anesthetic management of patients across the lifespan.

Grading basis: Regular Grades

Career: Graduate

Course Components:	Lecture	Required
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Course typically offered: Online Campus: Summer

Recommendations and additional information: NURS 670, NURS 671A

NURS 672A: Clinical I Nurse Anesthesia (1 - 6 units)

Description: This course is designed to develop clinical competencies of nurse anesthesia students by applying evidence-based knowledge and acquired skills in a supervised practicum. The students will learn to plan, implement, and manage basic anesthesia-related concerns of actual patients across the continuum of care- from preoperative assessment to post-operative evaluation.

Grading basis: Pass/Fail

Career: Graduate

Course Components:	Lecture	Required
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Course typically offered: Online Campus: Fall, Winter, Spring, Summer

Recommendations and additional information: NURS 575 & NURS 673

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 672B: Clinical II Nurse Anesthesia (2 units)

Description: This course is designed to further develop clinical competencies of nurse anesthesia students by applying evidence-based knowledge and acquired basic /advanced skills in a supervised practicum. The student with the assistance of the preceptor will learn to plan, implement, and manage anesthesia-related concerns of actual patients across the continuum of care- from preoperative assessment to post-operative evaluation.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered: Online Campus: Fall, Winter

Recommendations and additional information: NURS 672A & NURS 675

NURS 672C: Clinical III Nurse Anesthesia (6 units)

Description: This course is designed for the nurse anesthesia student to refine required clinical competencies and gain further experience with evidence-based clinical decision-making and acquired skills in a supervised practicum. The students with input from the preceptor will plan, implement, and manage anesthesia-related concerns of actual patients across the continuum of care- from preoperative assessment to post-operative evaluation.

Grading basis: Pass/Fail

Career: Graduate

Course Components: Lecture Required

Course typically offered: Online Campus: Spring

Recommendations and additional information: NURS 672B.

NURS 673: Advanced Anesthetic Principles (4 units)

Description: This course is designed to develop theoretical and clinical competencies in the anesthetic care of a continuum of patients undergoing complex surgical procedures. This course builds on the basic concepts and theory gained from prerequisite coursework.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered: Online Campus: Fall

Recommendations and additional information: NURS 501 & NURS 671B

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 674A: Senior Seminar I - Professional Issues of Nurse Anesthesia Practice (1 unit)

Description: This course focuses on the professional aspects critical to the development, preservation and well-being of the practice of nurse anesthesia. Emphasis is placed on applying historical, political, economic, and organizational principles to formulate solutions to real-world practice issues.

Grading basis: Regular Grades

Career: Graduate

Course Components: Seminar Required

Course typically offered: Online Campus: Spring

Recommendations and additional information: NURS 672A Clinical Practicum I

NURS 674B: Senior Seminar II - Clinical Topics (1 unit)

Description: This course focuses on the critical analysis of clinical topics in preparation for the board certification exam. A review of content, application of theories to events, and testing will comprise the content of this course. The student is required to take the SEE exam offered by the NBCRNA.

Grading basis: Regular Grades

Career: Graduate

Course Components: Seminar Required

Course typically offered: Online Campus: Spring

NURS 675: Co-existing Disease and Anesthetic Implications (3 units)

Description: This course is designed to develop theoretical and clinical competencies in the anesthetic care of patients with complex disease states across the lifespan. This course builds on the knowledge gained about basic and advanced anesthetic principles and pathophysiological disease concepts discussed in prerequisite coursework to determine evidenced-based anesthetic care modalities.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered: Online Campus: Spring

Recommendations and additional information: NURS 671A, NURS 671B, and NURS 575.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: This course addresses women's health across the lifespan, from adolescence to the older adult with an emphasis on preventive health and the management of commonly occurring health conditions. This course incorporates integrative nursing practices in the provision of care and explores sociopolitical and cultural factors related to the health of women.

Career: Graduate

Course typically offered:

Main Campus: Fall, Summer

Online Campus: Fall, Summer

NURS 682: Cardiac Rhythm Analysis and Interventions (1 unit)

Description: In this course the student will learn cardiac electrophysiology in normal and pathological states. Students will also learn the scientific rationales for nursing interventions to cardiac ischemia and arrhythmias. Content includes: theory and research on the mechanisms, diagnoses, electrocardiographic monitoring, and management of cardiac ischemia and arrhythmias.

Career: Graduate

Course typically offered:

Main Campus: Spring

Online Campus: Spring

Recommendations and additional information: NURS 501, NURS 572, NURS 609A.

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: In this introductory course students will become familiar with the principles and philosophy of palliative care and begin to develop a foundational skill set to deliver palliative care to patients and their families. This course is suitable for the generalist practitioner or those considering palliative care as an area for specialty practice or research.

Career: Graduate

Repeatable: Course can be repeated for a maximum of 3 units.

Main Campus: Spring

Online Campus: Spring

NURS 693A: Clinical Residency (5 units)

Description: An individualized, supervised clinical practicum to expand the student's advanced practice competencies in direct patient care as related to the care of specialty populations relevant to the student's advanced practice nursing specialty. Course requires 360 clinical clock hours.

Career: Graduate

Course typically offered:

Main Campus: Fall

Online Campus: Fall

Recommendations and additional information: Completion of one of the following: NURS 616, NURS 620B, NURS 629B, NURS 642B

Description: The practical application, on an individual basis, of previously studied theory and the collection of data for future theoretical interpretation.

Career: Graduate

Repeatable: Course can be repeated a maximum of 99 times.

Main Campus: Fall, Spring, Summer

Online Campus: Fall, Spring, Summer

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 694P: Palliative Care Practicum (1 - 6 units)

Description: Specialized work on an individual basis, consisting of supervised training and practice in palliative care

Grading basis: Alternative Grading: S, P, F

Career: Graduate

Course Components: Independent Study Required

Repeatable: Course can be repeated for a maximum of 6 units.

Recommendations and additional information: NURS 501, NURS 609A, NURS 613, NURS 614.

NURS 695A: The Science and Practice of Nursing (1 unit)

Description: This course provides an introduction to the doctorally prepared nurse's role in the community of nursing scholars, bridging practice with theory and science. Ethical issues in science relevant to the doctorally prepared nurse's role will be discussed.

Grading basis: Regular Grades

Career: Graduate

Course Components: Colloquium Required

Course typically offered:

Main Campus: Fall

Online Campus: Fall

Recommendations and additional information: Graduate nursing status.

NURS 695B: DNP Forum: The Scholarship and Practice of Nursing (2 units)

Description: Update course description to: This course provides an introduction to doctoral education for advanced practice nurses. Issues in ethics, science, scholarship, and leadership relevant to the DNP-prepared nurse's professional role will be discussed. APA formatting and scholarly writing skills are also addressed.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Fall

Online Campus: Fall

Recommendations and additional information: Admission to DNP Program.

Field trip: None.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 695C: Interprofessional Collaboration in Healthcare Teams (1 unit)

Description: This course will provide an overview of the competencies of interprofessional collaboration and practice. Emphasis is placed on roles and responsibilities for interprofessional collaborative practice, interprofessional communication practices, teamwork and team-based practice, values, and ethics for interprofessional practice. Patient and family centered care in community and population oriented settings are highlighted.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Summer

Online Campus: Summer

NURS 695D: Regulatory Science (1 unit)

Description: Course is led by the director of the Regulatory Science Consultative Service along with RSCS fellows. For each module in the Foundations seminars, there will be a case-study discussion led by a UA scientist, contributing domain-specific expertise. The colloquia series will draw on campus speakers, as well as scholars, industry leaders and regulators nationwide.

Grading basis: Regular Grades

Career: Graduate

Course Components: Colloquium Required

Repeatable: Course can be repeated a maximum of 2 times.

Also offered as: LAW 695D, PCOL 695D, PHPM 695D, PHSC 695D

Course typically offered:

Main Campus: Fall, Spring

Home department: Law

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 695L: Advanced Topics: Modulation of the Biology of Aging by Inflammation, Infection and Immunity (1 unit)

Description: An interactive graduate-level course focused on how inflammation and immune function/dysfunction contributes to key biological and medical aspects of aging. This course will evaluate the basic biology of aging with a focus on how the aging immune system impacts geriatric principles of care, common geriatric syndromes and aging-associated disease, the biologic basis of health disparities (where known), and other unique issues related to aging research. The course is open to both graduate students and medical students/residents. Graduate students funded through the Training Grant will be required to attend in their 3rd and 4th year in place of Journal Club. The course is comprised of three aspects: literature review, topic discussion, and attendance in the Advances in Aging Lecture Series (Grand Rounds). Students will be assigned relevant literature to review in advance of in-class discussion on topics in aging research. Each discussion will be led by an expert in the field. The Advances in Aging Lecture Series are 1-hour Grand Rounds that meet once per month and will add clinical perspective to the field of aging research. More information on Advances in Aging Lecture Series topics and archived lectures is available at <http://aging.arizona.edu/program/advances-aging-lecture-series>. Topics that will be covered in the course include: Introduction to Aging Research, Aging Theories, and Model Organisms; Replicative Senescence as a Driver of Age-Associated Inflammation; DNA Damage, Repair, and Oncogenesis; Mitochondrial Aging and Metabolism; Musculoskeletal Changes in Aging and Frailty; Infection and Immunosenescence; Aging with HIV in the age of ART; Microbiota in Aging; Neural Changes, Neurodegeneration, and Alzheimer's Disease; Cardiovascular Aging and Stroke; Stem Cell Aging and Longevity Extension/Rejuvenation Research.

Grading basis: Regular Grades

Career: Graduate

Course Components: Colloquium Required

Repeatable: Course can be repeated a maximum of 2 times.

Also offered as: BIOC 695L, CHEM 695L, CMM 695L, CPH 695L, IMB 695L, PHCL 695L, PSIO 695L

Home department: Immunobiology

NURS 699: Independent Study (1 - 4 units)

Description: Qualified students working on an individual basis with professors who have agreed to supervise such work. Graduate students doing independent work which cannot be classified as actual research will register for credit under course number 599, 699, or 799.

Grading basis: Alternative Grading: S, P, F

Career: Graduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 99 times.

Course typically offered:

Main Campus: Fall, Spring, Summer

Online Campus: Fall, Spring, Summer

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 701A: Foundations of Scholarly and Systematic Review of Research Literature (2 units)

Description: This course will provide students with a foundation for systematically reviewing the literature including 1) understanding characteristics of systematic or integrative reviews, 2) organizing and planning a scholarly review, and 3) writing a review protocol. This course is recommended for students who wish to do a systematic or integrative review as a manuscript for the three-manuscript dissertation option.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Spring

Recommendations and additional information: EndNote instruction; non-nursing students please contact the instructor.

Field trip: None.

NURS 701B: Implementing a Systematic or Integrative Review (1 unit)

Description: This course will provide students with an opportunity to conduct a systematic or integrative review based on the protocol developed in 701A and work with a team to develop a publishable manuscript. This course is recommended for students who wish to do a systematic or integrative review as a manuscript for the three-manuscript dissertation option.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Summer

Recommendations and additional information: Students must have beginning experience with EndNote and complete Foundations of Scholarly and Systematic Review of Research Literature 701A.

Field trip: none.

NURS 704: Philosophy & Theory for the DNP (3 units)

Description: The course focuses on philosophical and theoretical foundations of nursing knowledge, particularly in reference to advance practice nursing inquiry. Theoretical structures and concepts of varying levels of abstraction and scope are addressed with emphasis on the middle range for practice knowledge and inquiry. Strategies and issues in nursing knowledge generation and application in research and advanced practice are examined. Learning is applied to the students' beginning conceptual framework linking philosophical views and theoretical ideas for their own doctoral inquiry.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered: Online Campus: Fall

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: Examination of philosophical and historical foundations of knowledge, and metatheoretical structures and processes of theory development. In-depth analysis of extant and emerging philosophical bases of nursing for scientific inquiry.

Main Campus: Fall

Main Campus: Spring

Main Campus: Summer

Field trip: None.

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: This course will review the science of psychoneuroimmunology, and consider in detail the implications of psychoneuroimmunology for illness and wellness over the lifespan. The course will also explore how a psychoneuroimmunological perspective informs modern care and research strategies.

Career: Graduate

Course typically offered:

Main Campus: Fall

NURS 726: Theories of Health Promotion and Risk Reduction in Nursing (3 units)

Description: This doctoral level course focuses on extant theories across disciplines relevant to health promotion and risk reduction research. Students will review and critique individual, interpersonal and community level models used in health promotion and risk reduction research. The course culminates in a state of the science paper that analyzes a health promotion/risk reduction theory related to its theoretical and research base.

Career: Graduate

Course typically offered:

Main Campus: Spring

Recommendations and additional information: Prerequisite or concurrent registration, NURS 706. Consent of instructor.

Description: Theories and models of self-management and symptom management used in nursing and healthcare in connection with chronic illness will be explored and examined. Thematic consistencies among the theories and models will provide the basis for discussion. Constructs and concepts in chronic illness will be highlighted and include examples of how they have been measured in extant research.

Career: Graduate

Course typically offered:

Main Campus: Fall

Recommendations and additional information: Graduate Nursing Status. NURS 706 or consent of instructor.

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: This course in quantitative research emphasizes deductive methods using quantitative designs, data collection, measurement, and data management techniques relevant to nursing science. Emphasis is given to the link between theory conceptualization and operationalization with quantitative methods. Specific course content includes methods used to investigate descriptive relationships, experimental and quasi-experimental designs. In addition sources of error in quantitative methods, data manipulation and analysis and strategies for dissemination of quantitative findings are reviewed.

Main Campus: Fall

Enrollment requirement: NURS 631

Main Campus: Spring

Recommendations and additional information: Admission to Doctoral Nursing Program.

Main Campus: Spring

Recommendations and additional information: Prerequisite or concurrent registration NURS 731; consent of instructor.

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 733: Research Methods for Community-Based Interventions (3 units)

Description: Course focuses on research methods or practice projects associated with the design and implementation of community-based intervention research.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Spring

Recommendations and additional information: NURS 730, NURS 731 or consent of instructor.

NURS 734: Advanced Research Methods: Mixed Methods Research for Health Sciences
(3 units)

Description: Focuses on advanced mixed methods methodologies for health sciences research.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Spring

Recommendations and additional information: NURS 631 (or equivalent), NURS 730, and NURS 731 or approval of instructor.

Field trip: None.

NURS 736: Technology for Expanding Healthcare Capacity (3 units)

Description: This course examines the use of technology for expanding capacity to deliver health care services and education. Students will explore major conceptual and methodological issues associated with designing, implementing, and evaluating the effectiveness of technology-enhanced interventions.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Spring

Recommendations and additional information: Completion of either NURS 704 or NURS 705 or enrollment with permission of instructor.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: In this course, students will explore basic foundations of dissemination and implementation (D&I) science and research, including: rationale and relevance, terminology and core values, theories and frameworks, methodologies, rigor, ethical considerations, team involvement and organizational factors associated with moving evidence-based innovations into clinical and community healthcare settings.

Career: Graduate

Course typically offered:

Main Campus: Fall

Enrollment requirement: NURS 630, NURS 705, and (NURS 652 or NURS 730), or consent of instructor.

Description: This course introduces the meta-theoretical perspective of complex systems science, including contributing theories (e.g., systems theory, complex adaptive systems, network theory, and nonlinear dynamics). An exploration of mid-range and practice theories for selected integrative therapies and whole systems of care (e.g., Traditional Chinese Medicine, traditional healing systems, yoga, and tai chi chuan), along with implications of these theoretical perspectives on clinical processes (diagnosis, treatment and human response), research methods, and expected treatment outcome across level of scale will be discussed.

Career: Graduate

Course typically offered:

Main Campus: Spring

Enrollment requirement: Students must complete NURS 705 prior to this course as material learned in that course is essential to this one.

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: In this course, methodological approaches (quantitative and qualitative) consistent with complex systems science and the conceptual/ theoretical perspectives aligned with integrative therapies and health will be explored. Application of methodological approaches consistent with complex systems science will be used to design a research study in integrative health.

Career: Graduate

Course typically offered:

Main Campus: Summer

NURS 744: Topics in Integrative Health Research (3 units)

Description: In this course, the state of the science for selected integrative therapies to health will be evaluated. The literature on selected integrative therapies will be critically evaluated, along with determining the strength of evidence supporting the use of selected integrative therapies to health promotion and/or illness/symptom management, and identifying potential knowledge gaps.

Career: Graduate

Course typically offered:

Main Campus: Fall

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: Cellular and molecular physiology and pathophysiology is the study of cellular components (e.g. genes, proteins, organelles) and their interactions under physiologic and pathologic states. Understanding these interactions is crucial for the understanding of the complex nature of phenomena of interest studied in biobehavioral research, as well as the biomarkers used. This course will critically examine the principles of cellular and molecular physiology and pathophysiology as they relate to phenomena of interest relevant to biobehavioral research.

Career: Graduate

Required

Main Campus: Fall

NURS 748: Measurement and Methods in Biobehavioral Research (3 units)

Description: Biologic and behavior-based methods are integral components of biobehavioral research. Understanding and measurement issues related to these methods is therefore crucial. The purpose of this course is to critically examine the methods (and related measurement issues) used to investigate the underpinnings of phenomena relevant to biobehavioral research.

Grading basis: Regular Grades

Career: Graduate

Required

Course typically offered:

Main Campus: Spring

Recommendations and additional information: NURS 747 Cellular & Molecular Physiology and Pathophysiology as a pre or co-requisite for enrollment, or enrollment by permission of instructor.

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: This course focuses on injury mechanisms as they relate to phenomena of interest in biobehavioral research. Understanding the role of injury and its mechanisms is crucial to understanding biological-behavioral interactions. Therefore, this course will examine the integration of injury mechanisms (e.g. structural/functional changes, oxidative stress, hypoxia, and inflammation) in relationship to phenomena of interest (e.g. stress, fatigue, dyspnea) in biobehavioral research.

Career: Graduate

Course typically offered:

Main Campus: Fall

NURS 751: Evidence Based Practice (3 units)

Grading basis: Regular Grades

Career: Graduate

Course typically offered:

Main Campus: Summer

Online Campus: Summer

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

Description: This on-line doctoral level course provides students with an overview and application of principles and methods for (a) assessing safety and quality in health care environments, and (b) systematically evaluating the processes and outcomes of interventions to manage safety and quality in these environments. Topics include the conceptualization, planning, and ex-ante or before the event analysis of evaluation studies; principles to assure integrity of evaluation research studies; assessment of processes and measurement of outcomes; evaluation methodologies (randomized field experiments; quasi-experimental designs; survey methods; performance measurement; process analysis; benchmarking; hierarchical and integrated methods). Included also are specific methods to assess effects and efficiency (cost-benefit, cost-efficiency). The course concludes with specialized communication methods (including score cards and benchmark reports).

Career: Graduate

Course typically offered:

Main Campus: Summer

Online Campus: Summer

Description: Overview of fundamental concepts related to clinical epidemiology, clinical prevention, and population health. Key concepts, core competencies, health care delivery models and evidence-based nursing models within the science of epidemiology and population health are addressed. Students will apply concepts to evaluate clinical practice based issues and social trends in population health.

Career: Graduate

Course typically offered:

Main Campus: Fall

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 773: Rural Health Systems (3 units)

Description: Taught even-numbered years]. This course provides students with opportunities to integrate knowledge of theories, models, and research in the area of rural health systems. Rural health care delivery systems will be analyzed and evaluated on aspects of delivery systems related to rural clients; provider, and organizational outcomes; informatics; and leadership in the design, implementation and evaluation of rural healthcare systems. Example units of study include: rural clinical service integration, networks and fiscal performance of rural hospitals, how rural providers compare on cost and quality performance indicators, rural mental health services, the impact of managed care on rural service, rural public health infrastructures, rural safety nets, and rural-urban interdependence as evidenced through interregional resource flow, informatics and telemedicine, and referral and economic systems. This course is open to any student with graduate standing.

Grading basis: Regular Grades

Career: Graduate

Course Components:	Lecture	Required
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Course typically offered:

Main Campus: Summer (odd years only)

Online Campus: Spring (odd years only)

Recommendations and additional information: Graduate status or professional program student.

NURS 774: Rural Community Health (3 units)

Description: [Taught even-numbered years]. This course focuses on the health of rural communities. The health of rural populations will be examined within the context of diverse rural communities and students will be provided with opportunities to integrate knowledge of theories, models, and research on multiple community levels including exploration of issues such as the impact of rural occupations and economies, demography, migration and geography, culture and history, and the impact of local, state, and federal programs and policies on the health of rural populations. Vulnerability will be explored on at least two levels: how communities identify and recognize vulnerability, and how public policy and interventions respond to perceptions of vulnerability. The impact of living on the rural U.S.-Mexico border will be also explored.

Grading basis: Regular Grades

Career: Graduate

Course Components:	Lecture	Required
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Course typically offered:

Main Campus: Summer (even years only)

Online Campus: Summer (even years only)

Recommendations and additional information: Graduate status.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 782: Creating and Testing Behavioral Interventions (3 units)

Description: This course focuses on the development and testing of behavioral interventions. Theory-driven approaches to selecting the intervention, control condition and measures are emphasized as well as the design, conduct, analysis and interpretation of results of randomized clinical trials (RCTs). Alternatives to RCT for testing interventions are discussed. Planning for application to practice of tested interventions is highlighted. The content includes, but is not limited to, issues of random assignment, blinding, baseline assessment, recruitment, data collection, data management, and concepts of intervention fidelity. The ethics of intervention studies are discussed including assessing and reporting adverse events. Participant adherence is included with discussion on intention to treat analysis in the context of efficacy or effectiveness studies.

Grading basis: Regular Grades

Career: Graduate

Course Components:	Lecture	Required
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Course typically offered:

Main Campus: Spring

Recommendations and additional information: Graduate status and completion of NURS 730 and NURS 631.

NURS 787: Diverse Populations: Theories and Methods for Examining Health Disparities
(3 units)

Description: This overview course provides students the opportunity to examine health disparities experienced among diverse populations in the context of vulnerability and its impact on the health experiences of individuals, families, and communities. Students examine the concepts of determinants of health, health disparities and explore methods for achieving health equity among a select population, conceptualize vulnerability, apply metatheoretical perspectives, and middle range theories to use in their scholarly work.

Grading basis: Regular Grades

Career: Graduate

Course Components: Lecture Required

Course typically offered:

Main Campus: Fall

Recommendations and additional information: Admission to Nursing Doctoral Program.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 791A: Research Preceptorship (1 - 3 units)

Description: This course provides the student with a hands-on research preceptorship. Students will participate in supervised research experiences. These activities could span the entire research continuum from data collection, analysis, manuscript preparation, IRB application, or pilot studies. The experiences will provide students with research skills needed in their roles as research scientists.

Grading basis: Alternative Grading: S, P, F

Career: Graduate

Course Components: Independent Study Required

Repeatable: Course can be repeated for a maximum of 3 units.

Course typically offered:

Main Campus: Fall, Spring, Summer

Recommendations and additional information: Graduate Nursing Status.

NURS 796A: Synthesis Seminar (3 units)

Description: This synthesis seminar provides students with opportunities to integrate extant knowledge in one of the three substantive areas. We will examine conceptual, design, measurement, and methodological issue related to your research topics. Through interaction with faculty and peers, students will seek a conceptual understanding of the scientific context in which their research questions exist and propose a beginning program of research that has the potential to significantly contribute to nursing knowledge.

Grading basis: Regular Grades

Career: Graduate

Course Components: Seminar Required

Course typically offered:

Main Campus: Summer

Recommendations and additional information: NURS 705, NURS 706, NURS 730, NURS 731 and completion of Substantive Coursework.

NURS 799: Independent Study (1 - 4 units)

Description: Qualified students working on an individual basis with professors who have agreed to supervise such work. Graduate students doing independent work which cannot be classified as actual research will register for credit under course number 599, 699, or 799.

Grading basis: Alternative Grading: S, P, F

Career: Graduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 99 times.

Course typically offered:

Main Campus: Fall, Spring, Summer

Online Campus: Fall, Spring, Summer

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-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

NURS 920: Dissertation (1 - 9 units)

Description: Research for the doctoral dissertation (whether library research, laboratory or field observation or research, artistic creation, or dissertation writing).

Grading basis: Alternative Grading: S, P, F

Career: Graduate

Course Components: Independent Study Required

Repeatable: Course can be repeated a maximum of 99 times.

Course typically offered:

Main Campus: Fall, Winter, Spring, Summer

NURS 922: DNP Project (Doctor of Nursing Practice - Project Development) (1 - 9 units)

Description: Research for the practice inquiry (whether library research, laboratory or field observation or research, artistic creation, or dissertation writing).

Grading basis: Alternative Grading: S,P,E

Career: Graduate

Course Components: Independent Study Required

Repeatable: Course can be repeated for a maximum of 9 units.

Course typically offered:

Main Campus: Fall, Winter, Spring, Summer

Online Campus: Fall, Winter, Spring, Summer

Recommendations and additional information: Completion of course work in the Doctor of Nursing Practice degree program and completion of comprehensive exams.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

May Be Offered Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.