

# Doctor of Philosophy in Nursing

## MS- or DNP-PhD 64 units

### Academic Program Guide

Spring 2020-Spring 2021



THE UNIVERSITY OF ARIZONA  
College of Nursing

Core Courses (21 units Required)	Title	Prerequisite	Units	Term Offered	Year
NURS 630 <sup>1</sup>	Statistics for the Health Sciences	None	3	Fall	Year 1
NURS 631	Advanced Statistics for the Health Sciences	NURS 630, or Instructor Approval	3	Spring	Year 1
NURS 705	Philosophy of Nursing Science and Practice	None	3	Fall	Year 1
NURS 706	Theory Development and Evaluation	NURS 705	3	Spring	Year 1
NURS 707	Introduction to Proposal Writing for Research	None	3	Fall	Year 2
NURS 730	Quantitative Methods in Clinical Nursing Research	NURS 731 and NURS 631	3	Fall 2020 only then moves to Spring Year 1 in 2021	Year 2 (2020) Year 1 (2021)
NURS 731	Qualitative Methods in Clinical Nursing Research	None	3	Fall	Year 1
NURS 791A <sup>2</sup>	Research Preceptorship <sup>1</sup>	NURS 730, NURS 731, an Advanced Methods Course	3	Fall, Spring, Summer 1 & 2	Year 2

<sup>1</sup>Required for applicants without a graduate-level statistics course in the last 5 years; does not count toward required 64 units.

<sup>2</sup>May be taken over multiple terms for 3 units total.

PhD Role Courses	Title	Prerequisite	Units	Term Offered	Year
NURS 695A (Required for all students)	The Science and Practice of Nursing	None	1	Fall	Year 1
NURS 656 <sup>3</sup>	Nurse Educator Roles (Begins Spring 2021)	None	3	Spring	Years 1, 2
NURS 694 <sup>3</sup>	Teaching Practicum	NURS 656	1-6 units	Fall, Spring, Summer	Years 1, 2

<sup>3</sup>Required for recipients of the Nurse Faculty Loan Program.

Substantive Area of Study (12 units required)	Courses (See Substantive Course Guide below for full description)
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Minor <sup>4</sup>	Courses
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<sup>4</sup>All students are required to have a minor of at least 9 units. Students may choose to minor in "nursing", or to choose an outside minor (business, psychology, etc.).

Advanced Methods <sup>5</sup> (3 units required)	Title	Prerequisite	Units	Term Offered	Year
NURS 732	Advanced Qualitative Methods in Clinical Nursing Research	NURS 731	3	Spring	Year 1
NURS 734	Advanced Research Methods: Mixed Methods Research for Health Sciences	NURS 631, 730, 731	3	Spring (moves to Fall in 2022)	Year 2
NURS 742	Advanced Research Methods for Complex System Science and Integrative Health	NURS 730, NURS 731, or instructor approval	3	Summer	Year 2
NURS 748	Measurement and Methods in Biobehavioral Research	NURS 631 & 730	3	Fall	Year 2
NURS 782	Creating and Testing Behavioral Interventions	NURS 631 & 730	3	Spring	Year 2

<sup>5</sup>Advanced Methods courses build upon the required PhD core. More than 1 of these courses may also be taken as substantive or minor units.

Dissertation (18 units required)	Title	Units
NURS 920	Dissertation	18 units (May be taken over multiple terms)

### SUBSTANTIVE COURSE GUIDES

#### Precision Science

Precision science aims to predict symptom susceptibility, disease occurrence and progression & develop tailored interventions. Precision science maximizes effectiveness by accounting for how individual personal & environmental characteristics (lifestyle, co-existing diseases, biomarkers of risk, cognitive & emotional factors, & genetic and environmental factors) are associated with disease risk & progression. Precision science spans basic science through implementation science methodologies.

Number	Units	Title	Prerequisites	Term Offered	Year
NURS 613A	3	Palliative Care I: Fundamentals of Palliative Care	None	Summer – Odd yrs only	Year 1
NURS 613B	3	Palliative Care II: Advanced Concepts in Palliative Care	NURS 631A	Summer – Even yrs only	Year 2
NUS 642	3	Health Policy and Economics	None	Spring	Years 1, 2
NURS 701A	2	Foundations of Scholarly and Systematic Review of Research Literature	None	Fall	Years 1, 2
NURS 701B	1	Implementing a Systematic or Integrative Review	NURS 701A	Spring	Years 1,2
NURS 721	3	Psychoneuroimmunology Foundations and Clinical Implications	NURS 747 or permission	Fall	Year 2
NURS 726	3	Theories of Health Promotion and Risk Reduction in Nursing	NURS 706 or permission	Spring	Year 2
NURS 727	3	Managing the Consequences of Chronic Illness	NURS 706 or permission	Fall	Year 2
NURS 744	3	Topics in Integrative Health Research	None	Fall	Years 1,2
NURS 747	4	Cellular & Molecular Physiology & Pathophysiology for Biobehavioral Research	Upper division graduate physiology or pathophysiology within past 3 yrs or permission.	Fall	Year 2
NURS 796A	3	Synthesis Seminar (last time offered)	All courses completed	Summer	2020

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### Data and Systems Science

Data & systems science research includes, but is not limited to informatics, use and development of technologies, digital health, & data elements. Data science is the application of computational inquiries into large data sets to uncover data-driven decisions & solutions. Data analytics can include data mining, machine learning & other predictive analytic approaches. Systems scientists identify and test factors for modifying complex systems (e.g., health care settings, populations). The intentions are to achieve higher quality (safer) care, better patient experiences & population health outcomes at less cost, & improved healthcare provider work life.

Number	Units	Title	Prerequisites	Term Offered	Year
NURS 634	3	Data Management in Healthcare Systems	NURS 648 or equivalent	Spring –Odd yrs only	Years 1,2
NURS 642	3	Health Policy and Economics	None	Spring	Years 1,2
NURS 647	3	Human Factors in Health Information Technology	None	Fall	Years 1,2
NURS 648	3	Healthcare Informatics: Theory and Research	None	Fall	Years 1,2
NURS 650	3	Theories of Leadership & Organizational Management	None	Fall	Years 1,2
NURS 668	3	Influential Leadership in Health Systems	Permission of instructor	Summer	Year 2
NURS 701A	2	Foundations of Scholarly and Systematic Review of Research Literature	None	Fall	Years 1, 2
NURS 701B	1	Implementing a Systematic or Integrative Review	NURS 701A	Spring	Years 1,2
NURS 736	3	Technology for Expanding Healthcare Capacity	NURS 705	Spring	Years 1,2
NURS 740	3	Theories in Complex Systems Science and Integrative Health	None	Spring	Years 1,2
NURS 796A	3	Synthesis Seminar (last time offered)	All courses completed	Summer	2020

### Health Determinants Science

Determinants of health are multiple and complex & fall into 5 broad categories: 1) social and economic environment (e.g., education, employment, social networks); 2) physical environment (e.g., natural & built environment); 3) health care behaviors (e.g., individual lifestyles, cultural practice, family/community beliefs); 4) genetics (e.g., genetics and epigenetics); & 5) the health care system (e.g., access, cost, quantity, and quality of health care services).

Number	Units	Title	Prerequisites	Term Offered	Year
NURS 600D	3	Emerging Research in Aging and Healthcare	None	Fall	Years 1,2
NURS 642	3	Health Policy and Economics	None	Spring	Years 1,2
NURS 701A	2	Foundations of Scholarly and Systematic Review of Research Literature	None	Fall	Years 1, 2
NURS 701B	1	Implementing a Systematic or Integrative Review	NURS 701A	Spring	Years 1,2
NURS 726	3	Theories of Health Promotion and Risk Reduction in Nursing	NURS 706 or permission	Spring	Year 2
NURS 727	3	Managing the Consequences of Chronic Illness	NURS 706 or permission	Fall	Year 2
NURS 740	3	Theories in Complex Systems Science and Integrative Health	None	Spring	Years 1,2
NURS 744	3	Topics in Integrative Health Research	None	Fall	Years 1, 2
NURS 753 <sup>5</sup>	2	Population Health	None	Fall	Year 2
NURS 773	3	Rural Health Systems	None	Summer – odd yrs only	Year 1
NURS 774	3	Rural Community Health	None	Summer – even yrs only	Year 2
NURS 787	3	Diverse Populations: Theories and Methods for Examining Health Disparities	None	Fall	Years 1, 2
NURS 796A	3	Synthesis Seminar (last time offered)	All courses completed	Summer	2020

<sup>5</sup>Only taken by dual degree (PhD-DNP) students