

Doctor of Philosophy in Nursing

BSN – PhD 79 units

Academic Program Guide: **Spring 2020-Spring 2021**



THE UNIVERSITY OF ARIZONA
College of Nursing

Core Courses (Required)	Title	Prerequisite	Units	Term Offered	Year
NURS 630	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	NURS 730, NURS 731	3	Fall	Year 2
NURS 730	Quantitative Methods in Clinical Nursing Research	NURS 631 (may be taken concurrently), or instructor approval	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		3	Fall	Year 1
NURS 791A ¹	Research Preceptorship ¹	NURS 730, 731, and Advanced Methods ²	3	Fall, Spring, Summer 1 & 2	Year 2
Total:			24 units		

¹ May be taken over multiple terms for 3 units total.

² Advanced methods courses may be taken concomitantly with 791A.

PhD Role Courses	Title	Prerequisite	Units	Term Offered	Year
NURS 695A (Required)	The Science and Practice of Nursing	None	1	Fall	Year 1
NURS 656 ³	Nurse Educator Roles (Begins Spring 2021)	None	3	Spring	Years 1, 2
NURS 694 ³	Teaching Practicum	NURS 656	1-6 units	Fall, Spring, Summer	Years 1, 2
Total:			1 (other units optional)		

³ Required for recipients of the Nurse Faculty Loan Program.

Substantive Area of Study (21 units required)	Courses (See Substantive Course Guide below for full description)
Minor (9 units required) ⁴	

⁴ Students may choose to minor in "nursing", or to choose an outside minor (business, psychology, etc.)

Advanced Methods ⁵ (6 units required)	Title	Prerequisite	Units	Term Offered	Year
NURS 732	Advanced Qualitative Methods in Clinical Nursing Research	NURS 731	3	Spring	Years 1, 2
NURS 734	Advanced Research Methods: Mixed Methods Research for Health Sciences	NURS 631 (or equivalent), 730, 731 or instructor approval	3	Spring 2020 (moves to Fall in 2021, then Fall thereafter)	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
Total:			6 units		

⁵ BSN - PhD students must complete two Advanced Methods courses. Advanced Methods courses build upon the required PhD core. More than 2 of these courses also be taken as substantive or minor units.

Dissertation (18 units required)

NURS 920	Dissertation	18 units (taken over multiple terms)
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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 years only	Year 1
NURS 613B	3	Palliative Care II: Advanced Concepts in Palliative Care	NURS 631A	Summer – Even years 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 Instructor Approval	Fall	Year 2
NURS 726	3	Theories of Health Promotion and Risk Reduction in Nursing	NURS 706 or Instructor Approval	Spring	Year 2
NURS 727	3	Managing the Consequences of Chronic Illness	NURS 706 or Instructor Approval	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 Instructor Approval.	Fall	Year 2
NURS 796A	3	Synthesis Seminar (last time offered)	All courses completed	Summer	2020

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 years 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 ⁶	3	Theories of Leadership & Organizational Management	None	Fall	Years 1, 2
NURS 668 ⁶	3	Influential Leadership in Health Systems	Instructor Approval	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

⁶ Recommended to take 650 or 668

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 Instructor Approval	Spring	Year 2
NURS 727	3	Managing the Consequences of Chronic Illness	NURS 706 or Instructor Approval	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 ⁷	2	Population Health	None	Fall	Year 2
NURS 773	3	Rural Health Systems	None	Summer – odd years only	Year 1
NURS 774	3	Rural Community Health	None	Summer – even years 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

⁷ Only taken by dual degree (PhD-DNP) students

Approved 03/03/2020 by PhD-CISC