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SCHOOL OF NURSING

NURSING

NURSING METHODS

Detailed course offerings (Time Schedule) are available for

- [Autumn Quarter 2010](#)
- [Winter Quarter 2011](#)

To see the detailed Instructor Class Description, click on the underlined instructor name following the course description.

NMETH 403 Introduction to Research in Nursing (3)

Organization of the structure of nursing knowledge through research. Concepts and processes of research utilized in the investigation of nursing science.

NMETH 499 Undergraduate Research (1-5, max. 12)

Supervised individual scholarly inquiry on a specific nursing problem.

NMETH 520 Scholarly Inquiry for Nursing Practice (5) *Lewis, Schepp, Simpson*

Analyzes conceptual, theoretical, ethical, and empirical knowledge as a basis for posing nursing research questions, identifying research designs, selecting sampling and data collection strategies, and proposing analytic methods to answer a research question, and evaluate completed research for its scientific adequacy and applicability to practice. Offered: AWSpS.

Instructor Course Description: [Marcia G Killien](#)

NMETH 521 Methods of Research in Nursing (2)

Continuation of 520, with emphasis on methods of research applied to the solution of problems in all fields of nursing.

NMETH 522 Data Management for Research Professionals (4)

Surveys industrial strength data management, using techniques applicable to multi-center, longitudinal research trials with survey instruments. Involves challenges research professionals face as they graduate from a student project to a study with hundreds of cases, variables, multiple survey instruments and a staggered, repeated sampling protocol. Credit/no credit only.

Instructor Course Description: [Leonard Clark Johnson](#)

NMETH 523 Project Management and System Analysis for Health Informatics (3) Masuda

Overview of information technology project management principles as contained within the Project Management Body of Knowledge (PMBOK) and the Systems Development Life Cycle within formal Systems Analysis. Offered: A.

NMETH 524 Healthcare Information Systems and the Electronic Health Records (3) Masuda, Murphy

Overview and analysis of healthcare informatics issues, including patient safety and Information Technology (IT), infrastructure, clinical systems, definitions and functions of EHR systems, IT leadership in health care organizations, informatics change management, including key user roles evaluating EHR and workflow changes. Offered: W.

NMETH 526 Patient-Centered Interactive Health Communication Technologies (3)

Overview of current and emerging consumer-centric eHealth tools and technologies. Researchers and practitioners from multiple disciplines present theories, concepts, and principles from health, information, cognition, and human-factors sciences as they relate to the development and use of these tools and technologies.

Instructor Course Description: *Huong Q Nguyen*

NMETH 527 Introduction to Health Informatics and Systems Thinking (3) Masuda, Oylar

Examines how informatics aids in the transformation of healthcare delivery and how to most effectively use the theories and best practices in informatics toward building and deploying informatics solutions. Offered: A.

NMETH 528 Computing Concepts: From Theory to Application (3) Johnson

Survey of conceptual and applied computing concepts. Conceptual topics include a global survey of hard/software, networking, information systems analysis/design, and programming. The applied component emphasizes desktop system management skills and the creative use of spreadsheets to enhance personal productivity. Offered: W.

NMETH 529 Database Concepts and Applications in Clinical Informatics (3) Oylar

Introduction to relational database theory and technology from a health informatics perspective. Focuses on transactional database theory, architecture and implementation in a socio-technical context. Analyses database applications used in clinical environments. Introduces knowledge bases and data warehouses. Prerequisite: NMETH 528. Offered: Sp.

NMETH 530 Proposal and Project Development (3/5) Jarret, Killien, Schepp, Simpson

Focuses on the application of methods of inquiry to develop a scholarly proposal through faculty-guided small group discussion and individual composition. Students select project option to complete the conceptual phase and most activities to fulfill their plan. Prerequisite: NMETH 520. Offered: AWSpS.

NMETH 532 Developing an Evidence Base for Complementary and Alternative Medicine Practices (2/3) Berry, Booth-LaForce, Brandt, Magyary

Focuses on skill enhancement for evaluation CAM-related evidence and the implications for translating evidence to practice. Examines the challenges of CAM studies and describes strategies for improvement. Examines factors such as environment, culture, provider-patient relationship, and personal characteristics influencing research. Prerequisite: NMETH 520 or equivalent. Offered: WSpS.

NMETH 533 Appraising Evidence for Clinical Practice (4)

Teaches skills for evaluating and appraising health related evidence for clinical practice. Develops

advanced competency in searching and evaluating literature. Examines the merits of different types and levels of evidence; analyzing the generalizability and implications for clinical practice. Prerequisite: basic statistics course, NMETH 520, or equivalent. Offered: AWSpS.

NMETH 534 Translating Evidence to Clinical Practice: Conceptual, Methodological and Clinical Issues (4)

Examines conceptual, methodological, clinical and policy issues associated with translating evidence to practice. Translation of best evidence, including clinical guidelines, evaluated for impact on quality improvement, safety, accessibility, cost effectiveness, health status and quality of life. Addresses contextual challenges. Prerequisite: permission of instructor; either basic statistics course, NMETH 520, or NMETH 533.

NMETH 570 Seminar in Clinical Research in Nursing (3)

Philosophy, problems of design; use of criterion measures in terms of patient care.

NMETH 575 Methodological Issues in Family Research (3)

Emphasizes research with the family as unit of analysis. Examines patterns of family functioning in relation to responses to health situations. Reviews family units from generational and intergenerational perspectives. Critiques methods assessing dyadic and triadic relationships and therapeutic interventions on family outcomes. Prerequisite: permission of instructor.

NMETH 579 Research Design and Methods in Nursing Science (4)

Focuses on elements of rigorous research designs and methods commonly used in nursing science; including descriptive, explanatory, predictive and experimental and quasi-experimental designs, concepts of validity and reliability, and integration of design with analytical approaches for clinical research.

NMETH 580 Methodological Perspectives in Nursing Inquiry (3)

Allows students to translate philosophical and theoretical perspectives into research methodologies. Foci includes the relationship of theoretical perspectives to methodologies; the methodological issues among and between varying schools of thought such as interpretive/postmodern, critical/feminist, and contemporary empiricist; and how the methodologies influence choices of research design and methods.

NMETH 581 Observational Research Methods (2-6, max. 6)

Examines observational methods for conducting verbal and nonverbal behavioral research. Emphasizes critical analysis and rigor in research question formulation, measurement decisions, coding scheme development, data collection, and analysis and interpretation of data. In-depth application of observational method optional. Prerequisite: graduate standing and basic research methods course or permission of instructor. Offered: W.

NMETH 582 Interpretative Methods in Nursing Research (4-)

Seminar and field practicum for interpretative research methods. Study on health-related issues using a selected tradition in interpretative methods. Prerequisite: permission of Instructor.

NMETH 583 Interpretative Methods in Nursing Research (4)

Seminar and field practicum for interpretative research methods. Study on health-related issues using a selected tradition in interpretative methods. Prerequisite: permission of Instructor.

NMETH 584 Methods: Physiologic Measures (4)

Exploration of the measurement of physiologic functioning in human and animal models. Examples

include biochemical and biophysical measure. Students develop beginning skills with one physiologic measure. Prerequisite: physiology and chemistry and permission of instructor.

NMETH 585 Meta-Analysis (4)

Meta-analysis examined as a method to synthesize research. Overview of meta-analytic methods; description of the collection, analysis, synthesis, and reporting of studies; explanation of statistical calculations; and discussion of reliability and validity measures incorporated into meta-analytic design. Prerequisite: permission of instructor.

NMETH 586 Instrument Development and Testing (4)

Includes measurement theory, reliability, validity, level of measurement, and the process of scale development, modification, or translation. Students learn to evaluate, develop, modify, translate, and test instruments for use in research. Prerequisite: student in health science discipline and permission of instructor.

NMETH 587 Methods of Theory Testing: Causal Modeling with Path Analysis and Structural Equation Modeling (4)

Includes causal inferencing and theory testing through causal modeling with path analysis and structural equations modeling. Students learn to evaluate theory models and to apply the content by developing and testing models. Prerequisite: student in health science discipline and permission of instructor.

NMETH 590 Special Topics in Nursing Research (2-5, max. 9)

Examination of a specific research method, with evaluation of appropriateness, efficiency, rigor of measurement, and potential for inference for nursing research. Prerequisite: minimum of 5 credits of basic nursing research methodology at graduate level and permission of instructor.

Instructor Course Description: *Adrian Dobra Yu-Fang Li*

NMETH 591 Clinical Outcome Research I (4)

Examination of philosophical, analytical, and methodological decisions and processes in evaluating the effectiveness of interventions and programs designed to enhance health outcomes. Alternative designs are addressed in consideration of underlying assumptions about prevention/causation research; clinical human phenomena; design sensitivity; and threats to validity. Theory development emphasized. Prerequisite: permission of instructor.

NMETH 592 Clinical Outcome Research II (2-4, max. 4)

Application and evaluation of philosophical, methodological, and analytical concepts and issues examined in 591. Two modules are offered: a) case study and small-n studies and b) large-n studies. Students demonstrate application of decision-making process involved in development of clinical outcome study. Prerequisite: permission of instructor.

NMETH 593 Time Series and Sequential Analysis (4)

Basic introduction to terminology and methods of time series and sequential analysis as applicable to nursing-relevant processes in the form of samples of interval and categorical data collected over time; autocorrelation, autoregression, spectrum, socinor, Markovian, lag sequential, and log-linear analyses. Development of practical analysis skills on real data sets. Prerequisite: permission of instructor. Credit/no credit only.

NMETH 598 Special Projects ([1-12]-, max. 12)

Fulfills the requirements of the non-thesis option for Master's students in nursing. Projects involve scholarly inquiry with in-depth focused analysis, culminating in a written product/report for dissemination. Credit/no credit only. Prerequisite: NMETH 520 or permission of instructor.

NMETH 600 Independent Study or Research (*)

Credit/no credit only.

NMETH 700 Master's Thesis (*)

Credit/no credit only.

NMETH 799 Capstone Clinical Investigative Project ([1-12]-,max. 28)

Capstone project reflects culmination practice inquiry knowledge and competencies. Students collaborate with clinicians, consumers, faculty or fellow students to examine clinical questions which involve translating evidence to practice, and ultimately informs and influences care and enhances health outcomes. Credit/no credit only. Prerequisite: permission of supervisory committee. Offered: AWSpS.

NMETH 800 Doctoral Dissertation (*)

Credit/no credit only. Prerequisite: permission of Supervisory Committee chairperson or Graduate Program Coordinator.

NMETH 801 Practice Doctorate Project/Capstone ([1-12]-,max. 28)

Capstone project reflects culmination practice inquiry knowledge and competencies. Students collaborate with clinicians, consumers, faculty or fellow students to examine clinical questions which involve translating evidence to practice, and ultimately informs and influences care and enhances health outcomes. Credit/no credit only. Prerequisite: permission of supervisory committee. Offered: AWSpS.



University of Washington Course Descriptions
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