Program in Nursing Science

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nssao@uci.edu

Overview
The Program in Nursing Science offers a B.S., M.S., and Ph.D. in Nursing Science. The baccalaureate degree is a scholarly, evidence-based, clinical practice program, preparing students to take the NCLEX-RN licensing examination upon graduation. The masters degree is a scholarly, advanced practice program that currently offers two clinical practice concentrations: Family Nurse Practitioner (FNP) and Adult Gerontological Primary Care Nurse Practitioner (AGPCNP). Masters-prepared students in both practice concentrations are eligible to take the national exam for NP certification upon graduation. Additional concentrations are being developed. The Ph.D. degree focuses on preparing academic nurse scholars for research and teaching careers.

Degrees
Nursing Science  B.S., M.S., Ph.D.

On This Page:
• Admission to the Major
• Honors at Graduation
• Requirements for the B.S. Degree in Nursing Science
• Sample Program- Nursing Science

Undergraduate Program
Nurse professionals are members of interdisciplinary teams who work with people of all ages, cultural backgrounds, and lifestyles to help them achieve the highest level of wellness possible. The Bachelor of Science degree program in Nursing Science prepares graduates to function as generalists in professional nursing practice and to collaborate with other health care providers in clinics, hospitals, and community health settings. The undergraduate curriculum is designed to provide theory and research-based clinical experiences that integrate critical thinking, compassion, and caring behaviors that build clinical expertise. Students who successfully complete the B.S. degree in Nursing Science are eligible to take the licensure examination to become a registered nurse. The Nursing Science major is approved by the Board of Registered Nursing and the Commission on Collegiate Nursing Education (CCNE).

Most of the courses required for the major require completion of prerequisites. The sample program shown is a preferred sequence that accounts for all prerequisites. Most required courses are offered in sequence and only once a year. Full-time enrollment is required.

All students interested in the Nursing Science major should be aware that they will be required to do the following: (1) meet the physical and mental requirements necessary to perform nursing practice functions as outlined in Chapter 6, Article 2, Item 2725 of the Business and Professions Code of California; (2) complete a criminal background check prior to entering the clinical portion of the major in the junior year as required by health care facilities in which students will have clinical experiences; (3) purchase uniforms and other required equipment such as stethoscopes; (4) have access to transportation for off-campus clinical experiences beginning in the junior year.

Admission to the Major
Meeting the UCI admission criteria does not guarantee admission into the major. The admission process is competitive due to limited enrollment. In addition to meeting the UCI admission criteria, all eligible applicants are required to submit a supplemental application that includes a personal statement and a résumé detailing experiences in health care. A proctored essay and personal interview may also be required.

Freshmen: Preference will be given to those who rank the highest using the selection criteria as stated in the Admissions section of the Catalogue.

Transfer students: Admission to the major is limited and selective. Junior-level applicants with the highest grades overall and who satisfactorily complete course prerequisites will be given preference for admission to the Nursing Science major. The following list of prerequisites is required for transfer students applying for fall 2016 entry and beyond. All applicants must complete the following with grades of B or better: one year of general chemistry equivalent to UCI’s CHEM 1A - CHEM 1B - CHEM 1C; one quarter/semester of organic chemistry equivalent to UCI’s CHEM 51A; one quarter/semester of genetics equivalent to UCI’s BIO SCI 97; one quarter/semester of biochemistry equivalent to UCI’s BIO SCI 98; one quarter/semester of human physiology with laboratory equivalent to UCI’s BIO SCI E109 and BIO SCI E112L; one quarter/semester of microbiology with laboratory equivalent to UCI’s BIO SCI M122 and either BIO SCI M118L or BIO SCI M122L; one quarter/semester of human anatomy with laboratory equivalent to UCI’s BIO SCI D170; one quarter/semester of philosophy equivalent to UCI’s PHILOS 4 or PHILOS 5; one quarter/semester of psychology
equivalent to UCI’s PSYCH 7A/PSY BEH 9; one quarter/semester of public health equivalent to UCI’s PUBHLTH 1; one quarter/semester of sociology equivalent to UCI’s SOCIOL 1; and one quarter/semester of statistics equivalent to UCI’s STATS 7 or STATS 8. Applicants must have a cumulative GPA of 3.0 or higher to be considered.

Change of Major: Due to strict limits on the number of students who can be admitted to the program and rigid sequencing of much of the upper-division curriculum, change-of-major students need to apply in the month of November for winter quarter admission, at the earliest in sophomore year. Students should review the UCI Change of Major Criteria website (http://www.changeofmajor.uci.edu) and the Nursing Science website (http://www.nursing.uci.edu/programs/bs/change-of-major) for information regarding change of major admission requirements, application instructions, and selection criteria. Change-of-major students who are intending to apply to the Program in Nursing Science should be aware that the Program in Nursing Science cannot waive course prerequisites for any Francisco J. Ayala School of Biological Sciences or School of Physical Sciences courses, prior to admission into the Nursing Science major. As such, change of major students must adhere to the course prerequisites that these Schools have established and have published in the course descriptions that appear in the Catalogue.

Honors at Graduation
Honors at graduation, e.g., cum laude, magna cum laude, summa cum laude, are awarded to approximately the top 12 percent of the graduating seniors. To be eligible for honors, a general criterion is that students must have completed at least 72 units in residence at a University of California campus. Other important factors are considered visit at Honors Recognition.

Requirements for the B.S. Degree in Nursing Science
All major requirements must be passed with a C or better if taken at UCI, and a B or better if taken at another university. All Nursing Science courses must be taken at UCI. Students must maintain a 2.75 GPA in their upper-division Nursing Science courses to remain in good standing. If Nursing Science students fail any courses required for the major, they should contact Student Affairs for the repeat policy.

All students must meet the University Requirements.

Major Requirements

Complete the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BIO SCI 97</td>
<td>Genetics</td>
</tr>
<tr>
<td>BIO SCI 98</td>
<td>Biochemistry</td>
</tr>
<tr>
<td>BIO SCI D170</td>
<td>Applied Human Anatomy</td>
</tr>
<tr>
<td>BIO SCI E109</td>
<td>Human Physiology</td>
</tr>
<tr>
<td>BIO SCI E112L</td>
<td>Physiology Laboratory</td>
</tr>
<tr>
<td>BIO SCI M122</td>
<td>General Microbiology</td>
</tr>
<tr>
<td>BIO SCI M118L</td>
<td>Experimental Microbiology Laboratory</td>
</tr>
<tr>
<td>or BIO SCI M122L</td>
<td>Advanced Microbiology Laboratory</td>
</tr>
<tr>
<td>CHEM 1A-1B-1C</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>CHEM 51A</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>PHILOS 4</td>
<td>Introduction to Ethics</td>
</tr>
<tr>
<td>or PHILOS 5</td>
<td>Contemporary Moral Problems</td>
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</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PSY BEH 9</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>PSY BEH 11A</td>
<td>Psychology Fundamentals</td>
</tr>
<tr>
<td>PSY BEH 11B</td>
<td>Psychology Fundamentals</td>
</tr>
<tr>
<td>PSY BEH 11C</td>
<td>Psychology Fundamentals</td>
</tr>
<tr>
<td>PSYCH 7A</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>PSYCH 9A</td>
<td>Psychology Fundamentals</td>
</tr>
<tr>
<td>PSYCH 9B</td>
<td>Psychology Fundamentals</td>
</tr>
<tr>
<td>PSYCH 9C</td>
<td>Psychology Fundamentals</td>
</tr>
<tr>
<td>PSYCH 78A</td>
<td>Self-Identity and Society</td>
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Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ANTHRO 2A</td>
<td>Introduction to Sociocultural Anthropology</td>
</tr>
<tr>
<td>ANTHRO 2D</td>
<td>Introduction to Language and Culture</td>
</tr>
<tr>
<td>ANTHRO 41A</td>
<td>Global Cultures and Society</td>
</tr>
<tr>
<td>SOC SCI 1A</td>
<td>Principles in the Social Sciences</td>
</tr>
<tr>
<td>SOCIOL 1</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
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</tr>
<tr>
<td>SOCIOL 2</td>
<td>Globalization and Transnational Sociology</td>
</tr>
<tr>
<td>SOCIOL 3</td>
<td>Social Problems</td>
</tr>
<tr>
<td>SOCIOL 31</td>
<td>Self-Identity and Society</td>
</tr>
<tr>
<td>SOCIOL 44</td>
<td>Births, Deaths, and Migration</td>
</tr>
<tr>
<td>SOCIOL 62</td>
<td>Families and Intimate Relations</td>
</tr>
</tbody>
</table>

Select one of the following:

- **PSYCH 10A** Probability and Statistics in Psychology I
- **SOC SCI 10A** Probability and Statistics in Social Sciences I
- **SOCIOL 10A** Probability and Statistics
- **STATS 7** Basic Statistics
- **STATS 8** Introduction to Biological Statistics

Complete the following courses:

- **PSYCH 120D** Developmental Psychology
- **PUBHLTH 1** Principles of Public Health

Complete the following Nursing Science courses:

- **NUR SCI 110W** Frameworks for Professional Nursing Practice
- **NUR SCI 112LA** Foundations of Professional Practice
- **NUR SCI 112LB** Foundations of Professional Practice
- **NUR SCI 114A** Applied Pharmacology I
- **NUR SCI 114B** Applied Pharmacology II
- **NUR SCI 118A** Human Health and Disease I
- **NUR SCI 118B** Human Health and Disease II
- **NUR SCI 120** Adult Health Care
- **NUR SCI 125** Research Methods and Applications in Health Care
- **NUR SCI 130** Maternity and Women’s Health Care
- **NUR SCI 132** Pediatrics: Care of Children and Families
- **NUR SCI 135** Older Adult Health Care
- **NUR SCI 140** Human Behavior and Mental Health Care
- **NUR SCI 150** Critical and Specialty Health Care
- **NUR SCI 160** Leadership and Management in Health Care
- **NUR SCI 170** Community-Based Health Care
- **NUR SCI 175L** Clinical Preceptorship
- **NUR SCI 179A** Scholarly Concentration I
- **NUR SCI 179B** Scholarly Concentration II

**NOTE:** Double majors with Nursing Science, Pharmaceutical Sciences, Public Health Sciences, Biomedical Engineering: Premedical, or with any of the School of Biological Sciences majors are not permitted. Students majoring in Nursing Science may not minor in Biological Sciences.

### Sample Program — Nursing Science

#### Freshman

**Fall**

- **CHEM 1A**
- **PSYCH 7A or PSY BEH 9**
- **PUBHLTH 1**

**Winter**

- **CHEM 1B**
- **SOCIOL 1**
- **WRITING 39B**

**Spring**

- **CHEM 1C**
- **WRITING 39C**
- **Gen. Ed./Elective**

#### Sophomore

**Fall**

- **BIO SCI 97**
- **CHEM 51A**
- **PHILOS 4 or 5**

**Winter**

- **BIO SCI 98**
- **BIO SCI E109**
- **STATS 7 or 8**

**Spring**

- **BIO SCI D170**
- **BIO SCI M122**
- **BIO SCI M118L or M122L**

**Summer**

- **BIO SCI E112L**
Program in Nursing Science

Gen. Ed./Elective  Gen. Ed./Elective

<table>
<thead>
<tr>
<th>Junior</th>
<th>Winter</th>
<th>Spring</th>
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<tbody>
<tr>
<td>NUR SCI 110W</td>
<td>NUR SCI 112LB</td>
<td>NUR SCI 120</td>
</tr>
<tr>
<td>NUR SCI 112LA</td>
<td>NUR SCI 114B</td>
<td>NUR SCI 140</td>
</tr>
<tr>
<td>NUR SCI 114A</td>
<td>NUR SCI 118B</td>
<td></td>
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<tr>
<td>NUR SCI 118A</td>
<td>NUR SCI 125</td>
<td></td>
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<tr>
<td>PSYCH 120D</td>
<td>NUR SCI 135</td>
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<table>
<thead>
<tr>
<th>Senior</th>
<th>Winter</th>
<th>Spring</th>
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<tbody>
<tr>
<td>NUR SCI 130</td>
<td>NUR SCI 150</td>
<td>NUR SCI 170</td>
</tr>
<tr>
<td>NUR SCI 132</td>
<td>NUR SCI 160</td>
<td>NUR SCI 175L</td>
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<tr>
<td>NUR SCI 179A</td>
<td>NUR SCI 179B</td>
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</table>

On This Page:

• Master of Science in Nursing Science
  • Admission
• M.S. Concentration Areas
  • Requirements
• Doctor of Philosophy in Nursing Science
  • Admission
  • Areas of Focus
  • Requirements

Graduate Program

The Program in Nursing Science offers both the M.S. and Ph.D. degrees in Nursing Science. Detailed information about both degree programs follows.

Master of Science in Nursing Science

The Master of Science (M.S.) in Nursing Science at the University of California, Irvine is a research-based academic and professional degree program which will prepare Registered Nurses in selected specialties so they may assume roles as advanced practice clinicians, researchers, or educators. The program course work is designed to prepare nurses with: (1) expertise in a specialized area of advanced nursing practice; (2) role preparation as a nurse practitioner, nurse educator, or nurse administrator; (3) leadership and health policy skills; and (4) research skills. The M.S. degree will also prepare students for future doctoral work.

Admission

Applicants must have earned a bachelor’s degree in nursing from a regionally and CCNE accredited institution with degree standards equivalent to the University of California, currently be licensed as a Registered Nurse in the State of California, and provide proof of unrestricted licensure by the California Board of Registered Nursing (BRN). In addition, eligible candidates must have a 3.0 cumulative grade point average, have completed a descriptive and inferential statistics course and an upper-division nursing research course at the undergraduate level, and have at least one year direct clinical experience in patient care in a U.S. healthcare system upon entering the program.

Applicants must meet the general admission requirements of the UCI Graduate Division and the Program in Nursing Science admission requirements, and submit both the Application for Graduate Admission and the Nursing Science Supplemental Application in order to be considered for admission. The GRE is not required. Students are admitted every fall quarter.

M.S. Concentration Areas

Students applying to the M.S. program must select an area of concentration, either the Family Nurse Practitioner concentration (FNP) or the Adult-Gerontological Primary Care Nurse Practitioner concentration (AGPCNP). Graduates of the nurse practitioner (NP) tracks will also be eligible for certification by the California Board of Registered Nursing (BRN).

Requirements

Students enrolled in either the FNP concentration or the AGPCNP concentration will complete 72 units. Students will complete 720 hours of clinical practice with populations in their area of concentration to be eligible for certification. There is no foreign language requirement; proficiency in a language other than English is desirable but not required.
Required and Elective Courses for Both Concentrations

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>NUR SCI 200</td>
<td>Research Methods and Evaluation for Evidence-Based Practice</td>
</tr>
<tr>
<td>NUR SCI 210</td>
<td>Advanced Pathophysiology</td>
</tr>
<tr>
<td>NUR SCI 215</td>
<td>Health Promotion/Disease Prevention</td>
</tr>
<tr>
<td>NUR SCI 225A</td>
<td>Advanced Pharmacology</td>
</tr>
<tr>
<td>NUR SCI 225B</td>
<td>Advanced Pharmacology</td>
</tr>
<tr>
<td>NUR SCI 230</td>
<td>Advanced Health and Physical Assessment</td>
</tr>
<tr>
<td>NUR SCI 230L</td>
<td>Advanced Health and Physical Assessment Laboratory</td>
</tr>
<tr>
<td>NUR SCI 245A-245B</td>
<td>Primary Care and Primary Care</td>
</tr>
<tr>
<td>NUR SCI 250</td>
<td>Primary Care Women's Health</td>
</tr>
<tr>
<td>NUR SCI 260A</td>
<td>Primary Care Adult/Geriatric</td>
</tr>
<tr>
<td>NUR SCI 281</td>
<td>Frameworks for Advanced Professional Practice in Nursing</td>
</tr>
<tr>
<td>NUR SCI 282</td>
<td>Human Behavior and Mental Health Care for Advanced Practice</td>
</tr>
<tr>
<td>NUR SCI 283</td>
<td>Primary Care Procedures</td>
</tr>
<tr>
<td>NUR SCI 284</td>
<td>Advanced Practice Scholarly Concentration</td>
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<tr>
<td>NUR SCI 285</td>
<td>APN Clinical Practicum I</td>
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<tr>
<td>NUR SCI 286</td>
<td>APN Clinical Practicum II</td>
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<tr>
<td>NUR SCI 287</td>
<td>APN Clinical Practicum III</td>
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<tr>
<td>NUR SCI 288</td>
<td>APN Clinical Practicum IV</td>
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<tr>
<td>NUR SCI 289</td>
<td>APN Clinical Practicum V</td>
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Required for FNP Concentration only:

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>NUR SCI 255</td>
<td>Primary Care Obstetrics</td>
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<tr>
<td>NUR SCI 270</td>
<td>Primary Care Pediatrics</td>
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Required for AGPCNP Concentration only:

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>NUR SCI 260B</td>
<td>Primary Care Adult/Geriatric</td>
</tr>
<tr>
<td>NUR SCI 280</td>
<td>Aging and Chronic Illness</td>
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</tbody>
</table>

There are no qualifying examinations. Successful completion of required course work will advance students to candidacy the quarter prior to scheduled completion of the master’s degree program. Instead of a thesis, students complete a Scholarly Concentration in an area of interest over two quarters of the program and prepare a major paper. The comprehensive examination will serve as a final examination which will also prepare graduates for certification examinations. Full-time students are expected to complete the program within two years.

Doctor of Philosophy in Nursing Science

Admission

To be considered for admission, applicants must have a Bachelor or Master of Science degree in Nursing from a regionally and CCNE accredited institution with degree standards equivalent to the University of California. Degrees from international programs must have accreditations satisfactory to the Graduate Division and the Program in Nursing Science and be equivalent to UC educational requirements.

Applicants are required to submit transcripts showing a minimum grade point average (GPA) of 3.2 for undergraduate work and 3.5 for graduate work from an accredited institution and a scholarship record commensurate with requirements of the Graduate Division and the Program in Nursing Science. Previous education at the undergraduate and/or graduate levels will be evaluated for equivalency of design, theory, and intensity as a means of determining whether the prior degree standards are equivalent to those required by the UC system. Applicants are also required to submit scores from the General Test of the Graduate Record Examination taken within the last five years as required by the Graduate Division. If English is not the applicant’s first language, the applicant must demonstrate proficiency in English prior to admission commensurate with that identified by the Graduate Division for the Test of English as a Foreign Language (TOEFL) or TOEFL Internet-Based (TOEFL iBT).

Applicants who did not have a course in descriptive and inferential statistics within the last five years must complete a course similar to STATS 7 prior to admission. Applicants without an undergraduate research course are required to complete both NUR SCI 125 and NUR SCI 200. Applicants who have completed an undergraduate research course but not a graduate-level course in nursing research must complete NUR SCI 200.

In addition, applicants are required to submit:

- A statement of objectives for graduate study, career goals, and personal research goals including ways in which those goals are compatible with the UCI expected outcomes for doctoral education;
- A resume or Curriculum Vitae detailing educational background, professional work, previous research, and volunteer work as well as other relevant information such as fluency in another language;
• Examples of scholarly work;
• Three letters of recommendation submitted on the Graduate Division Recommendation Form from persons in a supervisory role who are able to comment on academic abilities, research-related abilities/capabilities, and/or work-related experiences; and
• Evidence of licensure as a registered nurse.

A personal interview will be required of applicants considered for admission. Acceptance is based on materials submitted, research interests related to those of faculty, and results of the interview process.

Areas of Focus

The specific field of emphasis for the Ph.D. program is Nursing Science. Generally, this involves increasing the quality of life for the community that nurses serve. Consistent with faculty research expertise, the Ph.D. program will specifically promote the development of scientific and theoretical expertise that contributes to scholarly endeavors in four key areas: health promotion/disease prevention, health disparities and diversity, disease and symptom management, and health services and health policy. These areas of research emphasis intersect as they contribute to healthy communities. Emphasis will be placed on building expertise in the use of translational science methods in conjunction with traditional models for research. Research emphasis areas are described below.

Health Promotion/Disease Prevention. According to the World Health Organization (2010), health promotion is empowering others to modify and improve their health. This happens at the individual, family, and community level. Health promoting activities often lead to disease prevention. Students choosing this focus may work with UCI faculty (Nursing Science and others) on stress and coping, women's health, and obesity prevention and nutrition, to name a few specific areas.

Health Disparities and Diversity. The focus on Health Disparities acknowledges that there are individuals, families, and communities who are not equally treated in the quest for health. Many do not have equal access to quality health care nor the means to achieve an equal level of desired health outcomes. The emphasis will be to examine these health disparities among diverse populations who encounter differences in treatment and outcomes. Students choosing this focus will have an opportunity to work with diverse community members in Orange County and beyond, and they will be mentored by researchers who study the experiences of these community members.

Disease and Symptom Management. Many individuals face challenges in managing chronic illness. The focus is to aid individuals to be healthy within the context of living with a chronic illness by investigating factors influencing self-management and developing best intervention strategies for symptom management. Students choosing this focus will have an opportunity to study chronic illness demands and the experiences, coping efforts, and challenges that patients face. Research at UCI covers a wide variety of diseases such as asthma, diabetes, congestive heart failure, peripheral vascular disease, mental illness, dementia, cancer, and other illnesses.

Health Services and Health Policy. Health policy and the economics of delivering health care are important issues affecting health outcomes. Students choosing this focus will have an opportunity to examine the implications of a variety of policies and services on health and health system outcomes. There will be opportunities to study with researchers who have expertise in health care system management, law, organizational theory and behavior, and quality of care.

Requirements

Ph.D. students are required to take a minimum of 75 quarter units. Among those, 44 quarter units must be formal course work selected in part by consultation with the faculty advisor, subject to review by a faculty oversight committee. These courses will cover the necessary fundamental and methodological principles, and accommodate cross-disciplinary themes in nursing science. Students will also be required to participate in the educational mission of the Program in Nursing Science as teaching assistants for two quarters.

Students will have two formal examinations along the process toward writing their thesis. First they will write a comprehensive examination at the end of the second year of study and following completion of required course work. The next benchmark will be the qualifying exam, in which students will advance to candidacy upon successful presentation of an original dissertation research proposal and oral defense of the proposal. Ph.D. completion requires submission of an acceptable dissertation and oral defense. The normative time to degree is five years, and the maximum time permitted is seven years.

Required Courses

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>NUR SCI 212</td>
<td>Philosophy of Science and Theory Development in Nursing Science</td>
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<tr>
<td>NUR SCI 220</td>
<td>Nursing Science and the Ecology of Healthy Communities</td>
</tr>
<tr>
<td>NUR SCI 222A-222B-222C</td>
<td>Seminar in Clinical Translational Science and Seminar in Clinical Translational Science and Seminar in Clinical Translational Science</td>
</tr>
<tr>
<td>NUR SCI 246</td>
<td>Qualitative Research Designs in Nursing Science</td>
</tr>
<tr>
<td>NUR SCI 247</td>
<td>Quantitative Research Designs in Nursing Science</td>
</tr>
<tr>
<td>NUR SCI 296</td>
<td>Doctoral Dissertation Reading and Writing</td>
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<tr>
<td>NUR SCI 298</td>
<td>Directed Studies in Nursing Science</td>
</tr>
<tr>
<td>NUR SCI 299</td>
<td>Independent Study in Nursing Science</td>
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NUR SCI 399 University Teaching
and either:

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<td>Statistical Methods for Data Analysis I</td>
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<td>and Statistical Methods for Data Analysis II</td>
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<td>or</td>
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<tr>
<td>PSY BEH P264A-P264B</td>
<td>Quantitative Methods in Psychology</td>
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<td>and Advanced Quantitative Methods in Psychology</td>
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</tbody>
</table>

Elective Courses
At least eight units of elective courses contributing to the area of proposed research must be taken outside of Nursing Science, and elective methods and statistics courses related to proposed research.

Faculty

Miriam Bender, Ph.D. University of San Diego, Assistant Professor of Program in Nursing Science
Jill Berg, Ph.D. University of Pittsburgh, Professor Emerita of Program in Nursing Science
Sarah E. Choi, F.N.P., Ph.D. University of California, San Francisco, Assistant Professor of Program in Nursing Science
Karen Deck, F.N.P., M.S.N. California State University, Long Beach, Health Sciences Assistant Clinical Professor of Program in Nursing Science
Lorraine S. Evangelista, Ph.D. University of California, Los Angeles, Professor of Program in Nursing Science
Camille F. Fitzpatrick, A.N.P., G.N.P., M.S.N. California State University, Long Beach, Health Sciences Clinical Professor of Program in Nursing Science
Yuqing Guo, Ph.D. University of Washington, Assistant Professor of Program in Nursing Science
Beth M. Haney, D.N.P. University of Colorado, Colorado Springs, Health Sciences Assistant Clinical Professor of Program in Nursing Science
E. Alison Holman, F.N.P., Ph.D. University of California, Irvine, Associate Professor of Program in Nursing Science
Jung-Ah Lee, Ph.D. University of Washington, Assistant Professor of Program in Nursing Science
Bernadette M. Milbury, M.S.N. University of California, Los Angeles, Health Sciences Assistant Clinical Professor of Program in Nursing Science
Maureen Movius, M.N. University of California, Los Angeles, Health Sciences Associate Clinical Professor of Program in Nursing Science
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Julie M. Rousseau, C.N.M., Ph.D. Columbia University, Health Sciences Assistant Clinical Professor of Program in Nursing Science
Kathleen Saunders, M.S.N. California State University, Dominguez Hills, Health Sciences Associate Clinical Professor of Program in Nursing Science
Susan M. Tiso, D.N.P. George Washington University, Health Sciences Clinical Professor of Program in Nursing Science

Courses

NUR SCI 40. Introduction to Nursing and Health Care. 2 Units.
Introduction to roles and responsibilities of nursing professionals, health care regulations, professional licensure, legal issues, ethics, and cultural competence in health care. Beginning competence in interviewing and patient-provider communication skills is included. Emphasis on professional role development.

NUR SCI 92. Compassion in Health Care. 1 Unit.
An overview of the importance of compassion in health care, providing examples from a variety of health care professions through lectures and discussion.

Grading Option: Pass/no pass only.
NUR SCI 110W. Frameworks for Professional Nursing Practice. 5 Units.
Conceptual frameworks for professional practice. Scope of professional nursing, jurisprudence and ethics, professional interpersonal relationships, and health care delivery systems in the context of the social, political, and economic environments. Socialization of the student for professional roles in nursing.

Corequisite: NUR SCI 112LA and NUR SCI 114A and NUR SCI 118A.
Prerequisite: BIO SCI D170 and BIO SCI E109. Satisfactory completion of the Lower-Division Writing requirement.

Restriction: Upper-division students only. Nursing Science majors only.

(Ib)

NUR SCI 112LA. Foundations of Professional Practice. 3 Units.
Development of skills in communication, interviewing, functional and physical health assessment across the life span, the art and science of human care, and clinical judgment.

Corequisite: NUR SCI 110W and NUR SCI 114A and NUR SCI 118A.
Prerequisite: BIO SCI E109 and BIO SCI D170.

Restriction: Nursing Science majors only.

NUR SCI 112LB. Foundations of Professional Practice. 4 Units.
Development of skills in communication, interviewing, functional and physical health assessment across the life span, the art and science of human care, and clinical judgment.

Corequisite: NUR SCI 114B and NUR SCI 118B and NUR SCI 125 and NUR SCI 135.
Prerequisite: NUR SCI 112LA and NUR SCI 110W and NUR SCI 114A and NUR SCI 118A.

Restriction: Nursing Science majors only.

NUR SCI 114A. Applied Pharmacology I. 2 Units.
Presents principles of pharmacology applied to interventions in pathophysiologic states across the life span. Discussion of the major drug groups with implications for monitoring, drug administration, toxicity, and patient education are included.

Corequisite: NUR SCI 110W and NUR SCI 118A and NUR SCI 112LA.
Prerequisite: BIO SCI E109 and BIO SCI D170.

Restriction: Nursing Science majors only.

NUR SCI 114B. Applied Pharmacology II. 2 Units.
Presents principles of pharmacology applied to interventions in pathophysiologic states across the life span. Discussion of the major drug groups with implications for monitoring, drug administration, toxicity, and patient education are included.

Corequisite: NUR SCI 118B and NUR SCI 112LB and NUR SCI 125 and NUR SCI 135.
Prerequisite: NUR SCI 114A and NUR SCI 118A and NUR SCI 110W and NUR SCI 112LA.

Restriction: Nursing Science majors only.

NUR SCI 118A. Human Health and Disease I. 2 Units.
Presents content on pathologic alterations in physiologic processes in cells, tissues, organs, and systems across the life span. Emphasis on critical thinking, application of concepts to clinical practice, and related research.

Corequisite: NUR SCI 114A and NUR SCI 112LA and NUR SCI 110W.
Prerequisite: BIO SCI E109 and BIO SCI D170.

Restriction: Nursing Science majors only.

NUR SCI 118B. Human Health and Disease II. 2 Units.
Presents content on pathologic alterations in physiologic processes in cells, tissues, organs, and systems across the life span. Emphasis on critical thinking, application of concepts to clinical practice, and related research.

Corequisite: NUR SCI 114B and NUR SCI 112LB and NUR SCI 125 and NUR SCI 135.
Prerequisite: NUR SCI 112LA and NUR SCI 114A and NUR SCI 118A and NUR SCI 110W.

Restriction: Nursing Science majors only.
NUR SCI 120. Adult Health Care. 8 Units.
Restorative, perioperative, supportive care of adults with acute/chronic alterations in oxygenation, regulation, immune response, elimination, metabolism, mobility, cognition, and substance abuse. Concurrent practicum occurs in inpatient medical-surgical units, perioperative units and outpatient clinics utilizing critical thinking and research skills.
Corequisite: NUR SCI 140.
Prerequisite: NUR SCI 112LB and NUR SCI 114B and NUR SCI 118B and NUR SCI 125 and NUR SCI 135.
Restriction: Nursing Science majors only.

NUR SCI 125. Research Methods and Applications in Health Care. 4 Units.
Foundational concepts of research in health care. Emphasizes critical evaluation and interpretation of research for application in practice.
Corequisite: NUR SCI 112LB and NUR SCI 114B and NUR SCI 118B and NUR SCI 135.
Prerequisite: NUR SCI 110W and NUR SCI 112LA and NUR SCI 114A and NUR SCI 118A and a basic statistics course.
Restriction: Nursing Science majors only.

NUR SCI 130. Maternity and Women’s Health Care. 8 Units.
Provides didactic and clinical experiences in nursing management of women’s wellness across the lifespan, the childbirth process, and newborn care. Incorporates concepts of family-centered care, teamwork and collaboration, patient safety, quality improvement and informatics, utilizing an evidence-based practice approach.
Corequisite: NUR SCI 132.
Prerequisite: NUR SCI 120 and NUR SCI 140 and PSYCH 120D.
Restriction: Nursing Science majors only.

NUR SCI 132. Pediatrics: Care of Children and Families. 7 Units.
Provides didactic and clinical experiences in nursing management of infants, children, and adolescents with acute, chronic and/or life-threatening conditions. Incorporates concepts of family-centered care, teamwork and collaboration, patient safety, quality improvement and informatics, utilizing an evidence-based practice approach.
Corequisite: NUR SCI 130.
Prerequisite: NUR SCI 120 and NUR SCI 140 and PSYCH 120D.
Restriction: Nursing Science majors only.

NUR SCI 135. Older Adult Health Care. 2 Units.
Theories of aging and application of principles of gerontology in health maintenance of older adults. Concepts and principles of rehabilitation and palliative care.
Corequisite: NUR SCI 112LB and NUR SCI 114B and NUR SCI 118B and NUR SCI 125.
Prerequisite: NUR SCI 112LA and NUR SCI 114A and NUR SCI 118A and NUR SCI 110W.
Restriction: Nursing Science major only.

NUR SCI 140. Human Behavior and Mental Health Care. 7 Units.
Biopsychosocial and cultural influences on promotion and restoration of mental health in adults and adolescents. Assessment, classification, and care of clients with mental health problems and/or substance abuse. Concurrent practicum in adult/adolescent inpatient psychiatric units and outpatient mental health clinics.
Corequisite: NUR SCI 120.
Prerequisite: NUR SCI 112LB and NUR SCI 114B and NUR SCI 118B and NUR SCI 125 and NUR SCI 135.
Restriction: Nursing Science majors only.

NUR SCI 150. Critical and Specialty Health Care. 6 Units.
Delivery of patient centered care for individuals with life-threatening alterations in health status utilizing technology and pharmacology for life support. Concurrent practicum in critical care units emphasizes collaboration, team work, and quality improvement in safe care delivery.
Corequisite: NUR SCI 160 and NUR SCI 179A.
Prerequisite: NUR SCI 130 and NUR SCI 132.
Restriction: Nursing Science majors only.
NUR SCI 160. Leadership and Management in Health Care. 4 Units.
Principles, concepts, and theories related to organizations, management, leadership, decision-making, and group process applied to the delivery of health care. The professional nurse using evidenced based practice, collaboration and informatics is incorporated in concurrent practicum emphasizing safe patient care delivery.

Corequisite: NUR SCI 150 and NUR SCI 179A.
Prerequisite: NUR SCI 130 and NUR SCI 132.
Restriction: Nursing Science majors only.

NUR SCI 170. Community-Based Health Care. 6 Units.
Epidemiology, primary health care promotion, and disease prevention applied to nursing care of individuals, families, groups, and communities. Includes sociocultural, political, economic, and environmental influences. Concepts and methods of assessing populations and communities incorporated in concurrent practicum.

Corequisite: NUR SCI 175L and NUR SCI 179B.
Prerequisite: NUR SCI 150 and NUR SCI 160 and NUR SCI 179A.
Restriction: Nursing Science majors only.

NUR SCI 175L. Clinical Preceptorship. 6 Units.
Independent study course focusing on critical thinking skills for nursing practice in selected clinical areas of interest to the student. The clinical experience focus will be on core competencies: patient-centered care, evidence-based practice, quality improvement, safety, and informatics.

Corequisite: NUR SCI 170 and NUR SCI 179B.
Prerequisite: NUR SCI 150 and NUR SCI 160 and NUR SCI 179A.
Grading Option: Pass/no pass only.
Restriction: Nursing Science majors only.

NUR SCI 179A. Scholarly Concentration I. 2 Units.
Independent study focusing on the research process to provide the evidence basis for a nursing protocol in an area of interest to the student.

Corequisite: NUR SCI 150 and NUR SCI 160.
Prerequisite: NUR SCI 130 and NUR SCI 132.
Restriction: Nursing Science majors only.

NUR SCI 179B. Scholarly Concentration II. 2 Units.
Second of two sequential courses focusing on analysis of research as evidence to support a nursing protocol in an area of interest to the student. Emphasizes formal development and dissemination of information to peers in a podium/poster session.

Corequisite: NUR SCI 170 and NUR SCI 179B.
Prerequisite: NUR SCI 179A.
Restriction: Nursing Science majors only.

NUR SCI 199. Independent Study in Nursing Science. 1-4 Units.
Original research with Nursing Science faculty.
Repeatability: May be repeated for credit unlimited times.

NUR SCI 200. Research Methods and Evaluation for Evidence-Based Practice. 3 Units.
Clinical research methods and evaluation procedures relevant to evidence-based advanced nursing practice.
Prerequisite: Undergraduate statistics course; undergraduate nursing research course.
Restriction: Nursing Science graduate students only.

NUR SCI 210. Advanced Pathophysiology. 3 Units.
Principles of normal body functioning and pathophysiologic changes that occur as a result of compensatory mechanisms and disease. Physical and psychological aspects of altered health are explored from the cellular to the level of the total body system.
Restriction: Nursing Science graduate students only.
NUR SCI 212. Philosophy of Science and Theory Development in Nursing Science. 4 Units.
Development of philosophy of science in relation to nursing science, scholarship, and practice; emphasis on inquiry, scientific reasoning, and contemporary philosophical thought; historical and contemporary influences on nursing science theory development; evaluation/analysis of interdisciplinary theory and application to nursing research.

Restriction: Graduate students only.

NUR SCI 215. Health Promotion/Disease Prevention. 3 Units.
Covers the evidence-based national clinical preventive services guidelines for health promotion and disease prevention. Emphasizes counseling about personal health behaviors, screening tests for the early detection of risk factors and disease, immunizations and chemo-prophylaxis.

Restriction: Nursing Science graduate students only.

NUR SCI 220. Nursing Science and the Ecology of Healthy Communities. 2 Units.
Seminar in nursing science research contributions and opportunities as they pertain to the ecology of health in local, national, and global communities. Emphasis on methodological and ethical issues, research gaps, and clinical translational opportunities.

Restriction: Graduate students only.

NUR SCI 222A. Seminar in Clinical Translational Science. 2 Units.
Discussion of clinical translational science methods in the context of nursing science research. Emphasis placed on interdisciplinary and community participatory research approaches.

Restriction: Graduate students only.

NUR SCI 222B. Seminar in Clinical Translational Science. 2 Units.
Discussion of clinical translational science methods in the context of nursing science research. Emphasis placed on interdisciplinary and community participatory research approaches.

Prerequisite: NUR SCI 222A.

Restriction: Graduate students only.

NUR SCI 222C. Seminar in Clinical Translational Science. 2 Units.
Discussion of clinical translational science methods in the context of nursing science research. Emphasis placed on interdisciplinary and community participatory research approaches.

Prerequisite: NUR SCI 222B.

Restriction: Graduate students only.

NUR SCI 225A. Advanced Pharmacology. 2 Units.
Principles of pharmacology that serve as a foundation for the pharmacotherapeutic management of patients evaluated and treated by advanced practice nurses. Emphasis includes that application of pharmacokinetic and pharmacodynamic principles.

Restriction: Nursing Science graduate students only.

NUR SCI 225B. Advanced Pharmacology. 3 Units.
Principles of pharmacology that serve as a foundation for the pharmacotherapeutic management of patients evaluated and treated by advanced practice nurses. Emphasis includes that application of pharmacokinetic and pharmacodynamic principles.

Prerequisite: NUR SCI 225A.

Restriction: Nursing Science graduate students only.

NUR SCI 230. Advanced Health and Physical Assessment. 3 Units.
Application of theoretical concepts related to comprehensive health assessment of patients across the lifespan. Analysis, synthesis, and application of comprehensive health assessment data.

Corequisite: NUR SCI 230L.

Restriction: Nursing Science graduate students only.
NUR SCI 230L. Advanced Health and Physical Assessment Laboratory. 1 Unit.
Clinical laboratory course for the application of concepts related to comprehensive health assessment of patients across the lifespan.
Corequisite: NUR SCI 230.
Restriction: Nursing Science graduate students only.

NUR SCI 245A. Primary Care. 3 Units.
Assessment and management of acute or episodic problems affecting patients and families across the lifespan. Diagnostics, pharmacology, pathophysiology, and therapeutics are integrated.
Prerequisite: NUR SCI 210 and NUR SCI 230.
Restriction: Nursing Science graduate students only.

NUR SCI 245B. Primary Care. 3 Units.
Assessment and management of acute or episodic problems affecting patients and families across the lifespan. Diagnostics, pharmacology, pathophysiology, and therapeutics are integrated.
Prerequisite: NUR SCI 245A.
Restriction: Nursing Science graduate students only.

NUR SCI 246. Qualitative Research Designs in Nursing Science. 4 Units.
Seminar in qualitative research philosophies, methods and analysis in nursing science clinical research. Consideration of population access and sampling, ethics, data management, analytical approaches, and translational potential.
Corequisite: NUR SCI 212.

NUR SCI 247. Quantitative Research Designs in Nursing Science. 4 Units.
Seminar in experimental and survey research designs, methods, and analysis in nursing science clinical research. Consideration of measurement issues, mixed methods models, population access and sampling, data management, analytical approaches, and translational potential.
Prerequisite: NUR SCI 212.

NUR SCI 250. Primary Care Women's Health. 3 Units.
Primary health care needs of women including adolescent, adult and aging adults. Emphasizes assessment, diagnosis, prevention, management, and education of common gynecologic and family planning health care needs.
Prerequisite: NUR SCI 210 and NUR SCI 230.
Restriction: Nursing Science graduate students only.

NUR SCI 255. Primary Care Obstetrics. 3 Units.
Assessment and management of women during pregnancy. Diagnostics, pharmacology, pathophysiology and therapeutics are integrated. Includes assessment, differential diagnosis, management, patient/family education, & counseling related to normal pregnancy care.
Prerequisite: NUR SCI 245A and NUR SCI 210 and NUR SCI 230 and NUR SCI 230L.
Restriction: Nursing Science graduate students only.

NUR SCI 260A. Primary Care Adult/Geriatric. 3 Units.
Assessment and management of acute or episodic problems affecting adult and geriatric patients and their families. Diagnostics, pharmacology, pathophysiology, and therapeutic are integrated.
Prerequisite: NUR SCI 245A.
Restriction: Nursing Science graduate students only.

NUR SCI 260B. Primary Care Adult/Geriatric. 3 Units.
Assessment and management of acute or episodic problems affecting adult and geriatric patients and their families. Diagnostics, pharmacology, pathophysiology, and therapeutic are integrated.
Prerequisite: NUR SCI 260A.
Restriction: Nursing Science graduate students only.
NUR SCI 270. Primary Care Pediatrics. 3 Units.
Assessment and management of acute or episodic problems affecting pediatric patients and their families. Diagnostics, pharmacology, pathophysiology, and therapeutics are integrated.

Prerequisite: NUR SCI 245A and NUR SCI 210 and NUR SCI 230 and NUR SCI 230L.

Restriction: Nursing Science graduate students only.

NUR SCI 280. Aging and Chronic Illness. 3 Units.
Assessment and management of the geriatric patient. Diagnostics, pharmacology, pathophysiology, and therapeutics are integrated. Includes assessment, differential diagnosis, management, patient/family education, and counseling related to aging.

Prerequisite: NUR SCI 260B.

Restriction: Nursing Science graduate students only.

NUR SCI 281. Frameworks for Advanced Professional Practice in Nursing. 3 Units.
Provides an orientation to the scope and standards of advanced professional nursing practice. Principles of jurisprudence, ethics, and advocacy are introduced along with conceptual frameworks for nursing practice.

Restriction: Nursing Science graduate students only.

NUR SCI 282. Human Behavior and Mental Health Care for Advanced Practice. 3 Units.
Course addresses theory/research on health risk factors (e.g., psychiatric illness, sociocultural and economic characteristics) that impact patient health and well-being across the lifespan. Emphasis is on cultural awareness, lifestyle modification, community resources, and communication/coping strategies to promote well-being.

Restriction: Nursing Science majors only. Graduate students only.

NUR SCI 283. Primary Care Procedures. 3 Units.
Introduces the theoretical basis for common procedures performed in primary care clinical practice. Focus includes EKG interpretation, x-ray interpretation, minor surgery and orthopaedic procedures.

Prerequisite: NUR SCI 245A.

Restriction: Nursing Science graduate students only.

NUR SCI 284. Advanced Practice Scholarly Concentration. 3 Units.
Independent study focusing on critique, analysis, and synthesis of research evidence as a basis for advanced practice nursing in an area of interest to the student.

Prerequisite: NUR SCI 200.

Restriction: Nursing Science graduate students only.

NUR SCI 285. APN Clinical Practicum I. 2 Units.
Clinical application of theory and research related to the advanced assessment and health promotion of patients across the lifespan.

Prerequisite: NUR SCI 210 and NUR SCI 230.

Grading Option: Satisfactory/unsatisfactory only.

Restriction: Nursing Science graduate students only.

NUR SCI 286. APN Clinical Practicum II. 4 Units.
Clinical field study applying theory, research, and developing clinical skills related to the provision of care to patients and their families in increasingly complex clinical situations.

Prerequisite: NUR SCI 285.

Grading Option: Satisfactory/unsatisfactory only.

Restriction: Nursing Science graduate students only.
NUR SCI 287. APN Clinical Practicum III. 5 Units.
Clinical application of theory and research through clinical experiences in selected primary care settings designed to provide students with competencies in the assessment, diagnosis, management, and education/counseling in selected populations.

Prerequisite: NUR SCI 286.
Grading Option: Satisfactory/unsatisfactory only.
Restriction: Nursing Science graduate students only.

NUR SCI 288. APN Clinical Practicum IV. 6 Units.
Continued clinical application of theory and research through clinical experiences in selected primary care settings designed to provide students with competencies in the assessment, diagnosis, management, and education/counseling in selected populations.

Prerequisite: NUR SCI 287.
Grading Option: Satisfactory/unsatisfactory only.
Restriction: Nursing Science graduate students only.

NUR SCI 289. APN Clinical Practicum V. 7 Units.
Culminating clinical experience serves as a transition from the student role to that of the advanced practice nurse.

Prerequisite: NUR SCI 288.
Grading Option: Satisfactory/unsatisfactory only.
Restriction: Nursing Science graduate students only.

NUR SCI 294. Directed Study in Vulnerable Populations. 1-4 Units.
Independent study that focuses on individually designed clinical learning experiences and goals within a selected vulnerable population, such as the homeless, veterans, minority groups, etc. Students work in a clinical setting addressing health care needs of the vulnerable population(s).

Prerequisite: NUR SCI 286.
Grading Option: Satisfactory/unsatisfactory only.
Repeatability: May be taken for credit 2 times.
Restriction: Nursing Science graduate students only.

NUR SCI 295. Directed Study in Latino Health Care. 2-4 Units.
Independent study in Latino health care.

Prerequisite: NUR SCI 286. Spanish language skills.
Grading Option: Satisfactory/unsatisfactory only.
Repeatability: May be taken for credit 2 times.
Restriction: Nursing Science graduate students only.

NUR SCI 296. Doctoral Dissertation Reading and Writing. 4-12 Units.
Dissertation research with Nursing Sciences faculty.

Prerequisite: Advancement to Candidacy.
Repeatability: May be repeated for credit unlimited times.

NUR SCI 298. Directed Studies in Nursing Science. 1-4 Units.
Directed study with Nursing Science faculty.

Repeatability: May be repeated for credit unlimited times.
Restriction: Graduate students only.
**NUR SCI 299. Independent Study in Nursing Science. 1-4 Units.**
Independent research with Nursing Science faculty.

Repeatability: May be repeated for credit unlimited times.

Restriction: Graduate students only.

**NUR SCI 399. University Teaching. 4 Units.**
Limited to Teaching Assistants.

Grading Option: Satisfactory/unsatisfactory only.

Repeatability: May be repeated for credit unlimited times.