The graduate programs emphasize productive scholarship and research in the development of nursing knowledge and the translation of knowledge into practice. Advanced study is in human health and development throughout the life span, and in nursing's role in providing health services to individuals, families, and communities.

The Ph.D. program, the dual-title Ph.D. program in nursing and bioethics, and the dual-title Ph.D. program in nursing and clinical and translational sciences prepare nurse scientists to provide leadership in nursing education, practice and research. Individualized curricula prepare nursing graduates to assume positions as faculty, researchers and leaders in educational, community, governmental, or institutional settings.

The D.N.P. degree program prepares nurse administrators and advanced practice nurses to assume leadership roles in practice settings in the community, governmental agencies, or healthcare institutions.

The M.S. degree program with a major in nursing prepares nurse scientists and clinical scholars who plan to complete a Ph.D. in nursing or dual-title Ph.D. in nursing and bioethics or a dual-title Ph.D. in nursing and clinical and translational sciences.

The M.S.N. degree in Nursing consists of a base program and five options. The options include:
- Family Nurse Practitioner
- Adult Gerontology Primary Care Nurse Practitioner
- Adult Gerontology Acute Care Nurse Practitioner
- Nurse Administrator
- Nurse Educator

The M.S., M.S.N., and D.N.P. degree programs in Nursing are accredited by the Commission on Collegiate Nursing Education.

The Nurse Practitioner options are designed to help prepare the professional nurse to function in an expanded nursing role providing direct care to specific groups of clients in a variety of health care settings. Since that practice is inherently interdisciplinary in nature, advanced knowledge and research from nursing is combined with knowledge from science, medicine, and related disciplines. The Nurse Practitioner may also function in supervisory, consultative, education, and research roles.

The Nurse Administrator option enables the student to acquire advanced knowledge of organizational leadership, health policy, and evidence-based health care delivery. The program is designed to prepare students for leadership and administrative roles in a variety of health care settings.

The Nurse Educator option enables the student to acquire advanced knowledge of evidence-based teaching and learning principles, curriculum development, and evaluative techniques. The program is designed to prepare students for educator roles in a variety of academic and health care settings.

Admission Requirements

Applicants apply for admission to the program via the Graduate School application for admission (http://gradschool.psu.edu/prospective-students/how-to-apply). Requirements listed here are in addition to Graduate Council policies listed under GCAC-300 Admissions (http://gradschool.psu.edu/graduate-education-policies).

For admission to the Nursing program, an applicant must hold either:

- a bachelor's degree in Nursing from a U.S. regionally accredited institution
- a postsecondary degree in Nursing that is equivalent to a U.S. baccalaureate degree earned from an officially recognized degree-granting international institution. Students entering the doctoral program via the traditional post-master's route must have earned a master's degree with a major in nursing from a program accredited by a national accrediting agency for nursing. Well-qualified Ph.D. applicants with a baccalaureate degree in nursing and master's degree in a related discipline (e.g., public health) will be evaluated individually to assess the need for prerequisite master's-level coursework in nursing for doctoral program admission.

Applicants must submit official transcripts from all post-secondary institutions attended (http://www.gradschool.psu.edu/prospective-students/how-to-apply/new-applicants/requirements-for-graduate-admission). For M.S.N. applicants, a cumulative grade-point average of 3.3 (on a 4.0 scale) for the baccalaureate degree is expected with a B or better in all science and nursing courses. For M.S. applicants, a cumulative grade-point average of 3.5 (on a 4.0 scale) for the baccalaureate degree is expected with a B or better in all science and nursing courses. College chemistry and statistics are also required (chemistry is not required for the nurse administrator option). B.S.N. to D.N.P. applicants are expected to have a cumulative undergraduate grade-point average of 3.5 (on a 4.0 scale). For master's to Ph.D. or D.N.P. applicants, a cumulative grade-point average 3.5 (on a 4.0 scale) for master's and subsequent course work is expected.

Two letters of reference are required for the M.S.N. degree program and three letters of reference are required for the M.S., D.N.P., and Ph.D. degree programs. The letters should be solicited from professional supervisors and faculty who can attest to the applicant's ability.

All applicants must submit a statement of purpose. In addition, M.S., D.N.P., and Ph.D. degree applicants must also submit a published or unpublished scientific paper, thesis, or other scholarly writing sample and a complete curriculum vitae.

GRE scores are required for admission to the M.S. and Ph.D. programs. GRE scores are not required for the M.S.N. or D.N.P. applicants, but if the
scores are submitted to Penn State they will be reviewed as part of the application.

The language of instruction at Penn State is English. English proficiency test scores (TOEFL/IELTS) may be required for international applicants. See GCAC-305 Admission Requirements for International Students (http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-300/gcac-305-admission-requirements-international-students) for more information.

Applicants to the Nursing program must have a minimum TOEFL total score of 80 with a 25 on the speaking section for the internet-based test (iBT). For the paper-based test, taken prior to July 2017, a minimum of 580 is required. The minimum composite score for the IELTS for applicants to the Nursing program is 7.

Applicants to the M.S.N. options and D.N.P. degree offered online via the World Campus must hold a current license to practice professional nursing in at least one U.S. state or in a foreign country. All other applicants to the M.S. and M.S.N. degree programs must hold a current Pennsylvania license to practice professional nursing. Applicants to the Ph.D. degree program must be licensed to practice professional nursing in at least one state or in a foreign country.

Applicants to the Adult Gerontology Acute Care Nurse Practitioner Option are required to have two years of acute care hospital experience.

Applicants to the M.S.N. degree program are encouraged to discuss program options with the faculty; however, an interview is not required. Doctoral (B.S.N. - Ph.D., B.S.N.- D.N.P., D.N.P., and Ph.D.) applicants will be contacted by the College of Nursing to schedule a required interview (either in person or via internet-based video conferencing).

### Degree Requirements

#### Master of Science in Nursing (M.S.N.)

Requirements listed here are in addition to Graduate Council policies listed under GCAC-700 Professional Degree Requirements (http://gradschool.psu.edu/graduate-education-policies).

The Master of Science in Nursing (M.S.N.) requires a minimum of 30 credits, with at least 6 credits at the 500 level, including:

- 9 credits of M.S.N. Program Core courses,
- 18 credits of electives, and
- at least 3 credits in a capstone course or project.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>M.S.N. Program Core</td>
<td></td>
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</tr>
<tr>
<td>NURS 501</td>
<td>Issues in Nursing and Health Care</td>
<td>3</td>
</tr>
<tr>
<td>NURS 510</td>
<td>Theoretical and Scientific Foundations of Advanced Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 830</td>
<td>Evidence-Based Practice I: Theory and Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Electives

Additional courses that will count as electives towards this degree can be chosen from a list of approved elective courses maintained by the graduate program office.

#### Culminating Experience

Students in the M.S.N. degree program are required to complete a capstone course or project, which demonstrates the application of theory and research to a clinical problem based on review of the literature and research utilization for that problem. For M.S.N. students who do not choose to complete an option, a capstone project is completed while enrolled in NURS 596 (3 credits).

| Total Credits | 30 |

The five advanced role options offered in the M.S.N. degree program include nurse educator, nurse administrator, family nurse practitioner, adult gerontology primary care nurse practitioner, and adult gerontology acute care nurse practitioner. Students in these options complete the 9 credits of M.S.N. Program Courses as described above. The option-specific course requirements described below replace the requirement for 18 credits of electives.

#### Family Nurse Practitioner Option

Students must earn a minimum of 45 credits for the M.S.N. with the Family Nurse Practitioner option.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NURS 501</td>
<td>Issues in Nursing and Health Care</td>
<td>3</td>
</tr>
<tr>
<td>NURS 510</td>
<td>Theoretical and Scientific Foundations of Advanced Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 830</td>
<td>Evidence-Based Practice I: Theory and Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

| Family Nurse Practitioner Option Required Courses | |
| NURS 802 | Advanced Health Assessment of Adult Populations | 3 |
| NURS 802A | Advanced Health Assessment of Pediatric Populations | 1 |
| NURS 803 | Pathophysiology | 3 |
| NURS 804 | Pharmacologic Therapy | 3 |
| NURS 870 | Nurse Practitioner Role with Healthy Individuals and Families | 3 |
| NURS 871 | Nurse Practitioner Role with Individuals and Families with Complex and/or Chronic Health Problems | 3 |
| NURS 872 | Family Nurse Practitioner Practicum I | 3 |
| NURS 873 | Family Nurse Practitioner Practicum II | 4 |
| NURS 875 | Nurse Practitioner Role with Children and Families | 2 |
| NURS 876 | Family Nurse Practitioner Practicum with Pediatric Populations | 2 |

| Electives | |
| Students in this option are required to take 3 additional elective credits chosen from a list of approved nursing elective courses maintained by the graduate program office. | 3 |

| Culminating Experience | |
| NURS 874 | Family Nurse Practitioner Integrative Practicum (Capstone Course) | 6 |

| Total Credits | 45 |

#### Adult Gerontology Primary Care Nurse Practitioner Option

Students must earn a minimum of 41 credits for the M.S.N. with the Adult Gerontology Primary Care Nurse Practitioner option.
### Code Title Credits
#### Required Courses
NURS 501 Issues in Nursing and Health Care 3
NURS 510 Theoretical and Scientific Foundations of Advanced Nursing Practice 3
NURS 830 Evidence-Based Practice I: Theory and Research Methods 3

**Adult Gerontology Primary Care Nurse Practitioner Option Required Courses**
NURS 802 Advanced Health Assessment of Adult Populations 3
NURS 803 Pathophysiology 3
NURS 804 Pharmacologic Therapy 3
NURS 870 Nurse Practitioner Role with Healthy Individuals and Families 3
NURS 871 Nurse Practitioner Role with Individuals and Families with Complex and/or Chronic Health Problems 3
NURS 872A Adult Gerontology Primary Care Nurse Practitioner Practicum I 4
NURS 873A Adult Gerontology Primary Care Nurse Practitioner Practicum II 4

**Electives**
Students in this option are required to take 3 additional elective credits chosen from a list of approved nursing elective courses maintained by the graduate program office.

**Culminating Experience**
NURS 874A Adult Gerontology Primary Care Nurse Practitioner Integrative Practicum (Capstone Course) 6

Total Credits 41

### Adult Gerontology Acute Care Nurse Practitioner Option
Students must earn a minimum of 43 credits for the M.S.N. with the Adult Gerontology Acute Care Nurse Practitioner option.

#### Code Title Credits
#### Required Courses
NURS 501 Issues in Nursing and Health Care 3
NURS 510 Theoretical and Scientific Foundations of Advanced Nursing Practice 3
NURS 830 Evidence-Based Practice I: Theory and Research Methods 3

**Adult Gerontology Acute Care Nurse Practitioner Option Required Courses**
NURS 802 Advanced Health Assessment of Adult Populations 3
NURS 803 Pathophysiology 3
NURS 804 Pharmacologic Therapy 3
NURS 860 Adult Gerontology Acute Care Nurse Practitioner Role I 3
NURS 861 Adult Gerontology Acute Care Nurse Practitioner Role II 3
NURS 862 Adult Gerontology Acute Care Nurse Practitioner Practicum I 4
NURS 863 Adult Gerontology Acute Care Nurse Practitioner Practicum II 4
NURS 865 Pharmacology for Acute Care Nurse Practitioners 1
NURS 866 Health Assessment of the Adult Gerontology Population in Acute Care 1

**Electives**
Students in this option are required to take 3 additional elective credits chosen from a list of approved nursing elective courses maintained by the graduate program office.

**Capstone Course**
NURS 864 Adult Gerontology Acute Care Nurse Practitioner Integrative Practicum (Capstone Course) 6

Total Credits 43

### Nurse Administrator Option
Students must earn a minimum of 36 credits for the M.S.N. with the Nurse Administrator option.

#### Code Title Credits
#### Required Courses
NURS 501 Issues in Nursing and Health Care 3
NURS 510 Theoretical and Scientific Foundations of Advanced Nursing Practice 3
NURS 830 Evidence-Based Practice I: Theory and Research Methods 3

**Nurse Administrator Option Required Courses**
NURS 836 Healthcare Informatics 3
NURS 846 Leadership Concepts and Theories for Nurse Administrators 3

**Electives**
Students in this option are required to take 9 additional elective credits chosen from a list of approved elective courses maintained by the graduate program office.

**Culminating Experience**
NURS 848 Synthesis and Application of the Nurse Administrator Role (Capstone Course) 6

Total Credits 36

### Nurse Educator Option
Students must earn a minimum of 36 credits for the M.S.N. with the Nurse Educator option.

#### Code Title Credits
#### Required Courses
NURS 501 Issues in Nursing and Health Care 3
NURS 510 Theoretical and Scientific Foundations of Advanced Nursing Practice 3
NURS 830 Evidence-Based Practice I: Theory and Research Methods 3

**Nurse Educator Option Required Courses**
NURS 802B Physical Assessment Through The Lifespan 3
NURS 803 Pathophysiology 3
NURS 804 Pharmacologic Therapy 3
NURS 840 Nursing Education Theories and Strategies 3
NURS 841 Assessment and Evaluation in Nursing Education 3

**Electives**
Students in this option are required to take 9 additional elective credits chosen from a list of approved elective courses maintained by the graduate program office.

**Culminating Experience**
NURS 848 Synthesis and Application of the Nurse Educator Role (Capstone Course) 6

Total Credits 36
Students may enter the program directly with a B.S.N. degree or following completion of a Master's degree in nursing. For the B.S.N. to the D.N.P., a core of master's courses is required. A minimum of 61 credits, 1000 hours of practicum time, and a DNP project is required. The 61 credits include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 501</td>
<td>Issues in Nursing and Health Care</td>
<td>3</td>
</tr>
<tr>
<td>NURS 510</td>
<td>Theoretical and Scientific Foundations of Advanced Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 830</td>
<td>Evidence-Based Practice I: Theory and Research Methods</td>
<td>3</td>
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</tbody>
</table>

**Nurse Administrator Option Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>NURS 846</td>
<td>Leadership Concepts and Theories for Nurse Administrators</td>
<td>3</td>
</tr>
</tbody>
</table>

**D.N.P. Core Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>NURS 831</td>
<td>Evidence-Based Practice II: Translation of Research</td>
<td>3</td>
</tr>
<tr>
<td>NURS 832</td>
<td>Doctor of Nursing Practice: Leadership I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 833</td>
<td>Doctor of Nursing Practice: Leadership II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Other Required Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 590</td>
<td>Colloquium</td>
<td>1</td>
</tr>
<tr>
<td>NURS 587</td>
<td>Ethics in Nursing Research</td>
<td>1</td>
</tr>
<tr>
<td>NURS 808</td>
<td>Population Health Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>NURS 836</td>
<td>Healthcare Informatics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Advanced Practice Clinical**

(Needed to meet the 1000 hour practicum requirement)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>NURS 834</td>
<td>Doctor of Nursing Practice Clinical Practicum</td>
<td>5</td>
</tr>
</tbody>
</table>

**Electives**

11 credits of electives chosen from a list of approved elective courses maintained by the graduate program office.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>NURS 835</td>
<td>Doctor of Nursing Practice Project</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Credits 61

The Master of Science in Nursing (M.S.N.) to D.N.P. program requires a minimum of 30 post-master's degree credits completed at Penn State. The curriculum is individualized based on previous course work and number of practicum hours completed during the master's program. A maximum of 550 practicum hours from the previous master's program will be accepted to fulfill to 1000 hours of required practicum hours. The curriculum is composed of 5 components, for a minimum of 38 credits:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 830</td>
<td>Evidence-Based Practice I: Theory and Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>
Comprehensive Examination

The comprehensive examination marks the student’s progression into their D.N.P. project. This occurs during the 3rd intensive, when students present their D.N.P. project proposal. The comprehensive examination needs to be successfully completed prior to the submission of the proposal for human subjects’ review or carrying out the project (if it does not require a review). Students who fail the examination on the first attempt may repeat it once. Students who fail the examination the second time are terminated from the program.

Final Oral Presentation

Upon completion of the project, the Final Oral Presentation is scheduled. Students are required to present the project for approval by their dissertation committee. The Associate Dean for Graduate Education & Research will sign off on the final paper, following completion of the paper during NURS 835 and the student’s passing of the oral presentation. Students who fail the presentation on the first attempt may repeat it once. The student’s final paper will be made publicly available through ScholarSphere (https://scholarsphere.psu.edu).

Doctor of Philosophy (Ph.D.)

Requirements listed here are in addition to Graduate Council policies listed under GCAC-600 Research Degree Requirements. (http://gradschool.psu.edu/graduate-education-policies)

Students may enter the program directly with a B.S.N. degree (and may receive an M.S. degree en route to the Ph.D.) or a concurrent M.S.N. (nurse practitioner option) or following completion of a B.S.N. and a Master’s degree (either in Nursing or non-Nursing).

Students entering with an M.S.N. will complete a minimum of 43 credits. The curriculum is composed of 3 components:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 580</td>
<td>Epistemology of Nursing Science</td>
<td>3</td>
</tr>
<tr>
<td>NURS 582</td>
<td>Review and Analysis of the Literature for Nursing Science</td>
<td>4</td>
</tr>
<tr>
<td>NURS 583</td>
<td>Advanced Seminar in Nursing Science</td>
<td>3</td>
</tr>
<tr>
<td>NURS 587</td>
<td>Ethics in Nursing Research</td>
<td>1</td>
</tr>
<tr>
<td>NURS 588</td>
<td>Healthcare Policy for Nurse and Healthcare Scholars</td>
<td>3</td>
</tr>
<tr>
<td>NURS 590</td>
<td>Colloquium</td>
<td>2</td>
</tr>
<tr>
<td>NURS 596</td>
<td>Individual Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Research Methodology and Statistics

Minimum of 15 credits approved by the student's adviser and/or dissertation committee

Courses for Individual Specialty

Minimum of 12 credits; minimum of 15 credits for a minor 12-15

Total Credits 43

1 Required of students who are not research assistants on an active faculty research study.

In addition to course work, all students are required to complete a series of examinations: the Qualifying Examination, the Comprehensive Examination (written and oral components), the Dissertation Proposal Defense, and Final Oral Examination. Students are required to pass the Final Oral Examination, have the dissertation approved and submitted, and graduate within five years of passing the qualifying examination.

Qualifying Examination

All students must satisfactorily complete the qualifying examination, which is designed to confirm the student’s mastery of basic nursing theory and research methods. For students entering the doctoral program with a master’s degree, the qualifying examination must be taken at the
end of the first year of full-time study or the equivalent. Students who fail the examination on the first attempt may repeat it once. Students who fail the examination the second time are terminated from the program.

**Comprehensive Examination**

The comprehensive examination is designed to test the student’s mastery of and ability to synthesize and integrate the theoretical basis for Nursing science, advanced research methods, and the chosen specialty area. This examination is taken when a student has substantially completed all course work. Students who fail the examination on the first attempt may repeat it once. Students who fail the examination the second time are terminated from the program.

**Dissertation and Final Oral Examination (the Dissertation Defense)**

Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. Each student is required to conduct an original and independent research project which adds to nursing’s body of knowledge, and to communicate the research report in a written dissertation. A written dissertation proposal is required and must be approved at a proposal hearing by a majority vote of the student’s dissertation committee. A majority vote is also required for approval of the completed written dissertation at the Final Oral Examination (the dissertation defense). The dissertation must be accepted by the dissertation committee, the head of the graduate program, and the Graduate School.

**Dual-Titles**

**Dual-Title Ph.D. in Nursing and Bioethics**

Requirements listed here are in addition to requirements listed in GCAC-208 Dual-Title Graduate Degree Programs (http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/ gcac-208-dual-title-graduate-degree-programs).

Nursing Ph.D. students may pursue additional training in bioethics through the dual-title Ph.D. program in Bioethics. Students must apply and be admitted to the graduate program in Nursing and the Graduate School before they can apply for admission to the dual-title degree program. Admission to the dual-title is determined upon review of all application materials (forwarded from the College of Nursing) by the admissions committee in Bioethics. Refer to the Admissions Requirements section of the Bioethics Bulletin page. (https://bulletins.psu.edu/graduate/programs/majors/bioethics) Students must apply and be admitted to the dual-title degree program in Bioethics prior to taking the qualifying exam.

To qualify for the dual-title degree, students must satisfy the requirements of the Nursing Ph.D. program. In addition, they must satisfy the requirements described below, as established by the Bioethics program committee. Refer to the Degree Requirements section of the Bioethics Bulletin page. (https://bulletins.psu.edu/graduate/programs/majors/bioethics) Within this framework, final course selection is determined by the student, their Nursing adviser, and their Bioethics program adviser.

The dual-title Ph.D. in Nursing and Bioethics requires a minimum of 1 credit of course work beyond the requirements for the Ph.D. in Nursing (17 credits of the 18 Bioethics credits are part of the current degree requirements in Nursing), as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOET 501</td>
<td>Perspectives and Methods in Bioethics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

8 additional credits from a list of approved electives at the 400 or 500 level, at least two of these courses must be at the 500 level.

**Total Credits**

18

1 These credits can be applied to the Courses for Individual Specialty requirement for the Nursing Ph.D.

2 Many of the available electives that students may wish to take are 3-credit courses, so 9 additional credits may be a more typical number for most students. The list of elective courses will be maintained by the Director of the Bioethics Graduate Program in consultation with the Bioethics Program Committee. The Nursing Science core constitutes 7 of these elective credits.

**Qualifying Examination**

Students must meet the Ph.D. qualifying examination requirements specified by Nursing; a single qualifying examination will be administered that includes assessment of both Nursing and Bioethics. At least one member of the qualifying examination committee must have a Graduate Faculty appointment in Bioethics. Because students must first be admitted to a graduate major program of study before they may apply to and be considered for admission into a dual-title graduate degree program, dual-title graduate degree students may require an additional semester to fulfill requirements for both areas of study and, therefore, the qualifying examination may be delayed one semester beyond the normal period allowable.

**Comprehensive Examination**

In addition to the general Graduate Council requirements for dissertation committees (http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/phd-dissertation-committee-formation), the dissertation committee of a Nursing and Bioethics dual-title Ph.D. student must include at least one member of the Bioethics Graduate Faculty. Graduate faculty members who hold appointments in both programs may serve in a combined role. If the chair of the committee representing Nursing is not also a member of the Graduate Faculty in Bioethics, the member of the committee representing Bioethics must be appointed as co-chair. The faculty member (or members) affiliated with the Bioethics Program will be responsible for administering a portion of the comprehensive exam that will require the student to demonstrate an understanding of various theoretical and methodological approaches to bioethics, and an ability to apply them to issues and problems (including, where appropriate, practical problems) in their nursing.

**Dissertation and Final Oral Examination (the Dissertation Defense)**

Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. Students enrolled in the dual-title program are required to write and orally defend a dissertation on a topic that is approved in advance by their dissertation committee and reflects their original research and expertise in Nursing and Bioethics. The dissertation must be accepted by the dissertation committee, the head of the graduate program, and the Graduate School.

**Dual-Title Ph.D. in Nursing and Clinical and Translational Sciences**

Requirements listed here are in addition to requirements listed in GCAC-208 Dual-Title Graduate Degree Programs (http://
Nursing Ph.D. students may pursue additional training in CTS through the dual-title Ph.D. program in CTS. Students must apply and be admitted to the graduate program in Nursing and the Graduate School before they can apply for admission to the dual-title degree program. Admission to the dual-title is determined upon review of all application materials (forwarded from the College of Nursing) by the admissions committee in CTS. Refer to the Admission Requirements section of the Clinical and Translational Sciences Bulletin page. (https://bulletins.psu.edu/graduate/programs/majors/clinical-translational-sciences) Students must apply and be admitted to the dual-title degree program in CTS prior to taking the qualifying exam.

To qualify for the dual-title degree, students must satisfy the requirements of the Nursing Ph.D. program. In addition, they must satisfy the requirements described below, as established by the CTS program committee. Refer to the Degree Requirements section of the Clinical and Translational Sciences Bulletin page. (https://bulletins.psu.edu/graduate/programs/majors/clinical-translational-sciences) Within this framework, final course selection is determined by the student, their Nursing adviser, and their CTS program adviser.

The CTS dual-title requires 26 credits:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CTS 590</td>
<td>Colloquium</td>
<td>2</td>
</tr>
<tr>
<td>Select 6 credits from the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>CTS 595A</td>
<td>Clinical Science Internship</td>
<td></td>
</tr>
<tr>
<td>CTS 595B</td>
<td>Translational Science Internship</td>
<td></td>
</tr>
<tr>
<td>BMS 571</td>
<td>Graduate Clinical Rotation</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>18 credits from a list of approved electives in each of the following areas (at least half of which must be at the 500 or 800 level):</td>
<td></td>
</tr>
<tr>
<td>Statistics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Epidemiology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Bioinformatics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Experimental Design and Interpretation</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Regulatory Environment</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Scientific Communication</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>26</td>
</tr>
</tbody>
</table>

Of the 18 elective credits required, 12 credits can be double-counted from the required courses for the Ph.D. in Nursing: STAT 500/PHS 520 meets the 3-credit requirement for Statistics, and an additional 9 credits of Individual Specialization Coursework required for Nursing can be selected from the list of CTS approved electives to meet the 3-credit requirements in Epidemiology, Bioinformatics, and The Regulatory Environment. Therefore, dual-title Ph.D. students in Nursing and CTS may require a minimum of 14 credits of additional coursework, consisting of approved electives in Experimental Design and Interpretation (3 cr.) and Scientific Communication (3 cr.), 2 credits of CTS 590; and 6 credits of CTS 595A, CTS 595B, or BMS 571.

Qualifying Examination
Students must meet the Ph.D. qualifying examination requirements specified by Nursing; a single qualifying examination will be administered that includes assessment of both Nursing and CTS. At least one member of the qualifying examination committee must have a Graduate Faculty appointment in CTS. Because students must first be admitted to a graduate major program of study before they may apply to and be considered for admission into a dual-title graduate degree program, dual-title graduate degree students may require an additional semester to fulfill requirements for both areas of study and, therefore, the qualifying examination may be delayed one semester beyond the normal period allowable.

Comprehensive Examination
In addition to the general Graduate Council requirements for dissertation committees (http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/phd-dissertation-committee-formation), the dissertation committee of a Nursing and CTS dual-title Ph.D. student must include at least one member of the CTS Graduate Faculty. Graduate Faculty members who hold appointments in both programs may serve in a combined role. If the chair of the committee representing Nursing is not also a member of the Graduate Faculty in CTS, the member of the committee representing CTS must be appointed as co-chair. The faculty member (or members) affiliated with the CTS Program will be responsible for administering a portion of the comprehensive exam that will require the student to demonstrate an understanding of various theoretical and methodological approaches to CTS, and an ability to apply them to issues and problems (including, where appropriate, practical problems) in their nursing.

Dissertation and Final Oral Examination (the Dissertation Defense)
Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. Students enrolled in the dual-title program are required to write and orally defend a dissertation on a topic that is approved in advance by their dissertation committee and reflects their dissertation research and expertise in Nursing and CTS. The dissertation must be accepted by the dissertation committee, the head of the graduate program, and the Graduate School.

Student Aid
Graduate assistantships available to students in this program and other forms of student aid are described in the Tuition & Funding (http://gradschool.psu.edu/graduate-funding) section of The Graduate School's website. Students on graduate assistantships must adhere to the course load limits (http://gradschool.psu.edu/graduate-education-policies/gsad/gsad-500/gsad-501-credit-loads-graduate-assistants) set by The Graduate School.

The following awards typically have been available to graduate students in this program:

U.S. Public Health Service Traineeships in Nursing
Open to selected registered nurse, full-time students in nursing; stipend may be available plus tuition. Apply to Associate Dean for Graduate Education & Research, College of Nursing.

World Campus students in graduate degree programs may be eligible for financial aid. Refer to the Tuition and Financial Aid section (http://www.worldcampus.psu.edu/tuition-and-financial-aid) of the World Campus website for more information.

Courses
Graduate courses carry numbers from 500 to 699 and 800 to 899. Advanced undergraduate courses numbered between 400 and 499 may be used to meet some graduate degree requirements when taken by
graduate students. Courses below the 400 level may not. A graduate student may register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.

Nursing (NURS) Course List (https://bulletins.psu.edu/university-course-descriptions/graduate/nurs)

Contact

University Park
Graduate Program Head: Judith E Hupcey
Ph.D. & M.S. Director of Graduate Studies/Professor-in-Charge: Susan Loeb
M.S.N. Director of Graduate Studies/Professor-in-Charge: Madeline Mattern
Primary Program Contact: Xiaohong Sheng
Email: xus1@psu.edu
Mailing Address: 203 Nursing Sciences Building, University Park, PA 16802
Telephone: (814) 863-2211
Program Website: Nursing at University Park (http://www.nursing.psu.edu/graduate)

World Campus
Director of Graduate Studies/Professor-in-Charge: Kristen Altdorffer
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