



College of NURSING

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The nursing profession is committed to the promotion of health through the provision of high quality nursing care within the health care system. Nursing encompasses health promotion, health maintenance, crisis care, and rehabilitation. The goal of nursing is to facilitate adaptation toward optimal health throughout the developmental continuum. To achieve this goal, the nurse interacts independently with the client and other members of the health team. Nursing, as a theory-based discipline, continually strives to improve the quality of care through the application of knowledge obtained through scientifically based inquiry.

The College of Nursing offers an undergraduate program leading to the Bachelor of Science in Nursing and graduate programs leading to the Master of Science in Nursing and the Doctor of Philosophy in Nursing. The focus of the undergraduate program is basic professional education, that of the master's program is the education of advanced practice nurses and nurse educators, while the Ph.D. program prepares nurse researchers.

UNDERGRADUATE PROGRAM

The undergraduate nursing program provides a foundation for professional practice based on the biological, physical, and behavioral sciences and the humanities. The program is designed to prepare the student for nursing practice with individuals, families, and aggregates of persons in a variety of health states, and in a variety of health care settings including hospitals and community health agencies. With professional experience, the graduate may progress to beginning-level leadership positions. Prenursing foundational courses and science courses were selected based on required knowledge and skills for the contemporary professional in nursing. The program, which has been approved by the Michigan Board of Nursing and accredited by the Commission on

Collegiate Nursing Education provides a foundation for graduate study in nursing.

Students who are seeking admission to the undergraduate nursing program or who have declared nursing as their major preference receive academic advisement from the College of Nursing.

Admission as a Junior

Enrollments to the College of Nursing are limited. Minimal criteria for application to the College are:

1. Completion of at least 56 credits acceptable to the College of Nursing with a cumulative grade-point average of 2.50 or higher.
2. Completion of the following Prenursing foundation courses:

PSY 101	Introductory Psychology	4
FCE 225	Ecology of Lifespan Human Development in the Family	3
HNF 311	Principles of Human Nutrition	3
NUR 300	Pathophysiology	4
3. Completion of the alternative track to Integrative Studies in Biological and Physical Sciences referenced in item 1. under the *Requirements for the Bachelor of Science in Nursing Degree in Nursing*. Selection of the alternative track is highly recommended to attain requisite knowledge and skills.
4. A grade of 2.00 or higher in approved biological science, chemistry, microbiology and molecular genetics, human anatomy and physiology courses including required laboratory work or in courses completed in the alternative track to Integrative Studies in Biological and Physical Sciences and in Nursing 300.
5. Completion of the university's Tier I writing requirement.

6. Completion of the university's mathematics requirement referenced in item 1. under the *Requirements for the Bachelor of Science in Nursing Degree in Nursing*.
7. Satisfactory community service, work experience and letters of recommendation.

Applications for admission to the nursing major are reviewed twice each year. A limited number of positions are available during each selection period. Students may be admitted to the nursing major for either the Fall semester or the Spring semester.

Students who wish to be considered for admission to the nursing major must submit their applications to the College of Nursing by March 1 for admission to the Fall semester and October 1 for admission to the Spring semester. Applicants are encouraged to meet with a college undergraduate program adviser prior to the submission of their application materials.

Requirements for the Bachelor of Science in Nursing Degree in Nursing

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of the catalog; 120 credits, including general elective credits, are required for the Bachelor of Science in Nursing degree.

Students must take Statistics 200 to fulfill the mathematics requirement of the University.

Students who are enrolled in the Nursing major leading to the Bachelor of Science in Nursing degree in the College of Nursing may complete an alternative track to Integrative Studies in Biological and Physical Sciences that consists of the following courses: Biological Science 111, Chemistry 141 and 143, Microbiology and Molecular Genetics 201 and 302, Human Anatomy 350, and Physiology 250. The completion of Chemistry 143 and Microbiology and Molecular Genetics 302 satisfy the laboratory requirement.

The University's Tier II writing requirement for the Nursing major is met by completing Nursing 340, 460, and 480. Those courses are referenced in item 2. a. below.

2. The following requirements for the major:

	CREDITS
a. All of the following courses:	48
NUR 330 Health Assessment and Nursing Therapeutics	7
NUR 340 Foundations of Scholarly Nursing Practice	4
NUR 350 Level I Integrative Seminar	1
NUR 360 Acute Nursing Care of Adults and Older Adults	8
NUR 370 Mental Health and Psychiatric Nursing	4
NUR 380 Level II Integrative Seminar	1
NUR 435 Nursing Care of the Childbearing Family	4
NUR 440 Nursing Care of Children, Adolescents and Their Families	4
NUR 450 Level III Integrative Seminar	1
NUR 460 Leadership Clinical Immersion	5
NUR 470 Community and Population Health Nursing	4
NUR 480 Role Transition Seminar	2
PHM 350 Introductory Human Pharmacology	3

NOTE: Registered Nurses will be granted 30 credits for successful completion of the National Council Licensing Examination for Registered Nurses (NCLEX-RN). Students must see their academic adviser for a complete listing of course requirements for the Bachelor of Science in Nursing degree.

GRADUATE STUDY

The College of Nursing offers two graduate degrees, the Master of Science in Nursing and the Doctor of Philosophy with a major in Nursing.

Master of Science

The Master of Science in Nursing degree prepares graduates for roles in two academic areas of concentration that reflect current, emerging and expanding roles of nurses as providers and educators. The curricula for these specialty roles are designed in the context of related challenges, needs and increasing complexities within the systems of health care delivery, higher education, and professional nursing. The Master of Science in Nursing degree has been fully accredited by the Commission on Collegiate Nursing Education (CCNE).

The Master of Science in Nursing degree program consists of four concentrations. The first concentration, Nurse Practitioner, focuses on the preparation of advanced practice nurses as nurse practitioners. Within this concentration, there are three options: adult, gerontology, and family. A second concentration, Nurse Educator, focuses on the preparation of nurses pursuing an indirect care role as a faculty member in a school of nursing or as an educator in a clinical setting, such as continuing education. A third concentration, Clinical Nurse Leader, focuses on the preparation of a clinical leader for setting specific practice throughout the healthcare delivery system.

Advanced practice nurses, as direct-care providers, use specialty skills and knowledge in providing care to clients of all ages and stages of development in primary care settings. The advanced practice curriculum prepares nurses to function interdependently with other health care providers to provide primary care. As part of this care, advanced practice nurses assess the physical, socio-emotional, and developmental states of individual clients and their families, analyze health behavior, apply clinical judgment, and intervene in a manner to improve the quality and effectiveness of health care delivery. They recognize the importance of health promotion, as well as early recognition and prompt treatment and management of illness, prevention of complications, and needed rehabilitation. Client and family education, guidance, and advocacy are vital characteristics of the advanced practice nurse's role.

Nurse educators, as direct-care providers, offer leadership in systems of care. The educational experience for students in this indirect care provider role includes interdisciplinary experiences in either teaching or healthcare system continuing education. Unique to this concentration is the opportunity to assimilate and synthesize concepts from other disciplines into the profession of nursing. Nurse educators, prepared at the master's level, are prepared to create and evaluate systems that impact the pedagogical methods for both clinical and theory teaching. The nurse educator masters a body of theoretical knowledge that serves as a catalyst for student learning. Teaching is action-oriented and theoretically based for the purpose of promoting and guiding learning in students.

The clinical nurse leader, as a direct-care provider, is a leader in the health care delivery system across all settings in which health care is delivered, including the acute care setting. The clinical nurse leader functions within a microsystem and assumes accountability for healthcare outcomes for a specific group of clients within a unit or setting through the assimilation and application of research-based data and information. The clinical nurse leader designs, implements, and evaluates client care by coordinating, delegating and supervising care provided by the health care team including licensed nurses, technicians, and other health professionals. The clinical nurse leader is not one of administration or management, but works as a clinical expert member of an interdisciplinary team to attain quality client care.

Nurse anesthetists, as direct-care providers, use specialty skills and knowledge in the planning and administration of anesthesia and pain management agents. The Nurse Anesthesia concentration fulfills the curriculum requirements of the Council on Accreditation of Nurse Anesthesia Educational Programs (COA). It is a rigorous, full-time program designed to educate Registered Nurses in academic knowledge, technical and clinical skills, and professional attitudes in nursing practice in preparation for safe administration of anesthesia. Graduates of the program will assume leadership roles as accomplished advanced practitioners in nurse anesthesia and will meet the requirements and be eligible for certification as Certified Registered Nurse Anesthetist (CRNA) and for licensure as an Advanced Practice Registered Nurse (APRN).

NURSING
Graduate Study

Students must meet the requirements of the University as described in the *Graduate Education* section of this catalog, in addition to the requirements of the College of Nursing specified below.

A Post-Master's Certificate Program is available to registered nurses who have a graduate degree and desire a specialty in nursing education or as a nurse practitioner with a focus on family health, adult health or gerontology. Contact the College of Nursing, Office of Student Support Services, A117 Life Sciences Building, 517-353-4827 or 1-800-605-6424 for additional information or visit www.nursing.msu.edu.

Students who are enrolled in the Master of Science in Nursing degree program may elect a specialization in Infancy and Early Childhood. For additional information, refer to the statement on *Interdepartmental Graduate Specialization in Infancy and Early Childhood* in the *College of Social Science* section of this catalog.

Admission

To be considered for admission to the Master of Science in Nursing program, an applicant must have:

1. Submitted a University application for admission and a curriculum vita.
2. Completed a bachelor's degree from an accredited college or university. For those applicants applying to the Nurse Anesthesia concentration, a Bachelor of Nursing degree is required from an accredited college or university.
3. Current licensure to practice nursing as a Registered Nurse in the applicant's state or country. For those applicants practicing in Michigan, a current Registered Nurse Michigan license is required.
4. A minimum grade-point average of 3.00 (4.00 scale) for total credits completed during the second-half of the four-year baccalaureate nursing program.
5. Applicants to the Nurse Anesthesia concentration must have completed the Verbal, Quantitative, and Analytical sections of the Graduate Record Examination within the last five years.
6. One year of clinical practice as a registered nurse prior to the clinical sequence of courses for the Nurse Practitioner concentration. No clinical practice experience is required prior to acceptance for the Nurse Educator or Clinical Nurse Leader concentration. One year of full-time clinical experience or equivalent as a Registered Nurse in an intensive care unit within the last five years is required for the Nurse Anesthesia concentration.
7. Successfully completed an approved statistics course within the last five years or a waiver examination. For those applicants applying to the Nurse Anesthesia concentration, they must have completed a three (3) credit undergraduate or graduate statistics course with a grade of 3.0 (4.0 scale) or better within the last five years.
8. Submitted a written essay of 150-200 words typed and double-spaced that addresses the applicant's career goals and motivations for graduate study in the selected area of specialty nursing practice: nurse practitioner, nurse educator, clinical nurse leader, or nurse anesthetist.
9. Submit three letters of recommendations. For those applicants applying to the Nurse Anesthesia concentration, the reference letters must be from a source that has direct knowledge of the applicant's work and educational experience specifying the applicant's ability to do graduate work.
10. Completed an admission interview with the College of Nursing faculty.
11. If the applicant's native language is not English, the applicant must complete the Test of English as a Foreign Language with a total score of 580 (paper version) or 21 (computer ver-

sion). Equivalent scores on the English Language Center Test may be submitted.

12. If the applicant's native language is not English, the applicant must complete the Educational Testing Service Test of Spoken English (TSE) with a score of 50 or above.

Provisional Status

Applicants who do not meet the requirements for regular admission to the Master of Science in Nursing program may be accepted provisionally. Provisionally admitted students are required to satisfy deficiencies as specified in the letter of admission and will be formally removed from provisional status once the deficiencies are satisfied. Students on provisional status may not progress in the program if deficiencies are not satisfied in the specified time frame.

Requirements for the Master of Science in Nursing Degree in Nursing

A total of 35 to 84 credits is required for the degree under either Plan A (with thesis) or Plan B (without thesis) depending on the student's area of concentration. Students interested in pursuing a research focus or doctoral studies are encouraged to pursue Plan A, which requires completion of a thesis. Students must meet the requirements specified below:

	CREDITS
Requirements for Both Plan A and Plan B (14 or 15 credits):	
1. All of the following courses:	
NUR 801 Advanced Professional Role	2
NUR 803 Conceptual and Theoretical Frameworks	3
NUR 810 Issues in Community-Based Care	3
NUR 815 Research and Evaluation for Master's Level Nurses	4 or 5
NUR 841 Health Care Policy in Perspective: Economics, Politics and Ethics	2
2. Complete one of the following four concentrations:	
NURSE PRACTITIONER (45 to 49 credits)	
a. All of the following courses (9 credits):	
NUR 805 Pathophysiology for Advanced Practice Nursing	3
NUR 807 Clinical Decision Making	3
NUR 809 Applied Pharmacology for Primary Care	3
b. One of the following three areas of study (22 credits):	
Family Advanced Practice Nursing	
NUR 820 Health Assessment of the Family	2
NUR 821 Primary Care Management of the Family I	4
NUR 822 Practicum I: Primary Care of the Family	6
NUR 823 Primary Care Management of the Family II	3
NUR 824 Practicum II: Primary Care for the Family	7
Gerontological Advanced Practice Nursing	
NUR 830 Health Assessment of Older Adults	2
NUR 831 Primary Care Management of Older Adults I	4
NUR 832 Practicum I: Primary Care for Older Adults	6
NUR 833 Primary Care Management of Older Adults II	3
NUR 834 Practicum II: Primary Care for Older Adults	7
Adult Advanced Practice Nursing	
NUR 850 Health Assessment of Adults	2
NUR 851 Primary Care Management of the Adult I	4
NUR 852 Practicum I: Primary Care for the Adult	6
NUR 853 Primary Care Management of the Adult II	3
NUR 854 Practicum for Primary Care Adult Advanced Practice Nurses II	7
c. Pass a comprehensive examination at the completion of the course work.	
Additional Requirements for Plan A	
1. NUR 899 Master's Thesis Research	4
2. Complete a master's thesis acceptable to the student's thesis committee.	
3. Pass an oral examination based on the thesis.	
NURSE EDUCATOR (35 to 39 credits)	
a. All of the following courses (15 credits):	
NUR 805 Pathophysiology for Advanced Practice Nursing	3
NUR 861 Curriculum Design in Nursing Education	3
NUR 865 Nursing Education Seminar	2
NUR 866 Academic Internship in Nursing Education	3
NUR 867 Clinical Internship in Nursing Education	4
b. Complete two electives (6 credits) from a list of courses maintained in the College of Nursing. Both courses must be approved by the student's academic adviser.	
c. Pass a comprehensive examination at the completion of the course work.	
Additional Requirements for Plan A	
1. NUR 899 Master's Thesis Research	4
2. Complete a master's thesis acceptable to the student's thesis committee.	
3. Pass an oral examination based on the thesis.	

CLINICAL NURSE LEADER (40 to 44 credits)

- a. All of the following courses (26 credits):
 - NUR 805 Pathophysiology for Advanced Practice Nursing . . . 3
 - NUR 807 Clinical Decision Making 3
 - NUR 809 Applied Pharmacology for Primary Care. 3
 - NUR 820 Health Assessment of the Family 2
 - NUR 871 Evidence-Based Care Management 4
 - NUR 872 Leading for a Quality Environment 3
 - NUR 873 Clinical Nurse Leader Residency 8
- b. Pass a comprehensive examination at the completion of the course work.

Additional Requirements for Plan A

- 1. NUR 899 Master's Thesis Research. 4
- 2. Complete a master's thesis acceptable to the student's thesis committee.
- 3. Pass an oral examination based on the thesis.

NURSE ANESTHESIA (80 to 84 credits)

- a. All of the following courses (65 credits):
 - ANTR 551 Medical Gross Anatomy 6
 - NUR 877 Anesthesia Physiology and Pathophysiology 3
 - NUR 878 Advanced Physiology and Pathophysiology 3
 - NUR 879 Chemistry and Physics of Anesthesia 3
 - NUR 880 Health Assessment for Nurse Anesthesia. 3
 - NUR 881 Perioperative Technology and Instrumentation. . . . 2
 - NUR 882 Principles of Anesthesia I 3
 - NUR 883 Principles of Anesthesia II 3
 - NUR 884 Principles of Anesthesia III 3
 - NUR 885 Anesthesia Practicum I 1
 - NUR 886 Anesthesia Practicum II 2
 - NUR 887 Pharmacology for Anesthesia Practice I 3
 - NUR 888 Pharmacology for Anesthesia Practice II 3
 - NUR 892 Clinical Practicum I 7
 - NUR 893 Specialty Practicum I 7
 - NUR 894 Specialty Practicum II 7
 - NUR 895 Clinical Seminar I 2
 - NUR 896 Clinical Seminar II 2
 - NUR 897 Clinical Seminar III 2
- b. Pass a comprehensive examination at the completion of the course work.

Additional Requirements for Plan A

- 1. NUR 899 Master's Thesis Research. 4
- 2. Complete a master's thesis acceptable to the student's thesis committee.
- 3. Pass an oral examination based on the thesis.

Part-time Students

Although many nursing students pursue the master's degree on a part-time basis, all degree candidates will be expected to maintain minimum degree progress standards established by the College and published in the *College of Nursing Graduate Student Handbook*. Students are also expected to complete at least one course per semester until the degree is earned.

Academic Standards

A cumulative grade-point average of 3.00 and a grade of 3.0 in **each** nursing course required for the major must be maintained to continue in the program. Graduate students who earn final grades below 3.0 in two required courses will be ineligible for degree candidacy and will be dismissed from the program.

Transfer Credits

Up to 25% (9 semester credits) of graduate course work (excluding thesis credits) may be transferred into the Master of Science in Nursing program from other National League for Nursing or Commission on Collegiate Nursing Education accredited programs upon approval of the College of Nursing.

Time Limit

The time limit for completing the degree is six years from the beginning of the first semester in which credit toward the degree was earned.

Doctor of Philosophy

The Doctor of Philosophy degree program with a major in Nursing is designed with a major emphasis in health status and health outcomes research related to individuals and families within the context of community-based primary care. Graduates will conduct and facilitate research in a variety of academic, clinical and community-based settings.

Admission

In addition to meeting the requirements of the University as described in the Graduate Education section of this catalog, students must meet the requirements specified below.

- 1) Grade-point average of at least 3.00 for all previous academic work.
- 2) Graduate Record Examination Verbal, Quantitative, and Analytic sections completed within last five years.
- 3) Master's degree in nursing is recommended, however admission to the program without a Master's degree in nursing will require additional course work as specified by the College of Nursing.
- 4) Three references from academic or employment sources.
- 5) Personal interview with faculty.
- 6) Satisfactory completion of master's level statistical pre-test.

Requirements for the Doctor of Philosophy Degree in Nursing

In addition to meeting the University requirements for the Ph.D. degree, students will complete a program of required and selected courses. Required courses guide the student in the principles and methods of research for the evaluation and testing of current and developing theories relevant to nursing. Courses in the selected area of focus offer opportunity for students to build upon their educational and experiential backgrounds to develop greater depth of knowledge in their research area. Students will be involved in a community health care site to gain an in-depth understanding of the dynamics in the translation of scientific knowledge to the practice setting. Students will also be required to participate in a research team to gain experience in the conduct of nursing research.

		CREDITS
Course Requirements:		
1.	All of the following	57
	CEP 920 Construction of Psycheducational Instruments 3	
	CEP 921 Psychometric Theory I 3	
	CEP 933 Quantitative Methods in Educational Research II 3	
	NUR 901 Knowledge Development in Nursing 3	
	NUR 910 Health Status Outcomes: The Individual and Family . . . 3	
	NUR 911 Health Status Outcomes: Community/Primary Care 3	
	NUR 920 Translation of Research and Scientific Knowledge to a Community Setting 3	
	NUR 930 Methods in Clinical Research 3	
	NUR 940 Research Practicum 3	
	NUR 950 Nursing Research Seminar I 1	
	NUR 951 Nursing Research Seminar II 1	
	NUR 999 Doctoral Dissertation Research 24	
	PHL 480 Philosophy of Science 4	
2.	A minimum of 6 credits in advanced research methodology and analysis, as approved by the student's guidance committee	6
3.	One qualitative methods course, as approved by the student's guidance committee	3
4.	At least one course in area of focus, as approved by committee	6