



COLLEGE OF HEALTH AND NURSING SCIENCES

- **Biomechanics and Movement Science**
(Interdisciplinary Program); see page 273.

The College of Health and Nursing Sciences offers graduate degrees through the Departments of Health, Nutrition, and Exercise Sciences, and Nursing.

Students have the opportunity for clinical experiences in a variety of student- and faculty-supported settings, including teaching assistantships with the Nursing Center, which provides older adults with a variety of health promotion and disease management services, and the Employee Wellness Center, offering programs encouraging University employees to make lifestyle decisions promoting optimal health. For more information, please see <http://www.udel.edu/health>

HEALTH, NUTRITION, AND EXERCISE SCIENCES

The department offers graduate programs leading to Master of Science degrees in Exercise Science (thesis required,) Health Promotion (non-thesis,) and Human Nutrition (thesis and non-thesis options.) Students in the Exercise Science program select a major area of study in Biomechanics, Exercise Physiology, or Motor Control. Students in each master of science program may complete degree requirements on a full-or part-time basis. The department also offers a post-baccalaureate dietetic internship certificate program.

To ensure consideration for admission to one of these degree programs, a completed Admission Application should be submitted no later than January 15 for the fall semester and September 15 for the spring semester. Admission application forms are available from the Graduate Office, from the department, and online at:

(<http://www.udel.edu/admissions/appinfo.html>)

International student applicants must demonstrate a satisfactory level of proficiency in the English language if English is not their first language. The University requires departments to use an official paper-based TOEFL score of 550 or better or 213 or better on the computer-based TOEFL for an applicant to be considered for admission.

A limited number of teaching assistantships/tuition scholarships are available on a competitive basis. To be eligible the student must complete an application file and must be qualified for admission in regular status. Funding decisions are made separately from admission decisions. First priority is given to thesis students. Please refer to the chapter "Graduate Fellowships and Assistantships" in this catalog for more information.

- **Health, Nutrition, and Exercise Sciences**
- **Nursing**

M.S. IN EXERCISE SCIENCE

Telephone: (302) 831-8006

For more information, please visit the department web site at <http://www.udel.edu/HESC/>

The M.S. program in Exercise Science is supported with well-equipped research facilities, including three-dimensional video capabilities, electromyography, and force platforms, as well as equipment for measurement of cardiopulmonary function, bone mineral density, body composition, functional muscular capacity, blood lactate, and motor unit discharge. There are opportunities for student research involvements in the Ice Skating Science and Development Center and the Orthopedic and Biomechanical Engineering Center of the A.I. duPont Institute.

ADMISSION REQUIREMENTS

1. A bachelor's degree based on a four-year curriculum in an accredited college or university.
2. Acceptable undergraduate transcripts.
3. The equivalent of an undergraduate major in kinesiology, exercise science or related discipline.
4. Three letters of recommendation indicating the capability, interest, maturity, and scholarly potential of the candidate for graduate study.
5. Acceptable GRE scores (over 1050 combined math and verbal scores).

Recommended prerequisites for **Biomechanics** include:

- Math through calculus
- Anatomy
- One year of physics
- Computer programming experience

Recommended prerequisites for **Exercise Physiology** include:

- One year of biology
- Two years of chemistry
- One year of physics

Recommended prerequisites for **Motor Control** include:

- Math through calculus
- Anatomy and physiology
- One year of biological or physical science

Admission is selective and competitive, based on the number of well-qualified applicants and the limits of available faculty and facilities. Those who meet stated minimum academic requirements are not guaranteed admission, nor are those who fail to meet those requirements necessarily precluded from admission if they offer other appropriate strengths. See the Admission Information chapter in this catalog for additional information.

REQUIREMENTS FOR THE DEGREE

The Master of Science with a major in Exercise Science requires 24 credits of coursework at the 600 or 800 level, and 6 credits of thesis. The 24 credits of coursework are specified in the individual planned programs of study, and must include 15-18 credits of coursework in courses within Exercise Science, and 6-9 credits of coursework in cognate areas as specified by the requirements for each concentration.

MASTER OF SCIENCE IN EXERCISE SCIENCE CONCENTRATION: EXERCISE PHYSIOLOGY

Exercise Physiology is a science that studies the effect of physical activity on the systems of the human body. Opportunities are available in scientific research, physiological assessment, cardiac rehabilitation, and exercise prescription. Students in the MS program in exercise physiology are required to conduct research and complete a thesis.

Credit Requirements:

Credits within Exercise Science	15-18
Cognate areas outside Exercise Science	6-9
Thesis	6
Total number of required credits	30

A. Required Credits Within Exercise Science

HESC 601	Research Methods	3
HESC 602	Statistics	3
HESC 603	Seminar in Exercise Science (4 semesters required)	0
HESC 800	Advanced Physiology of Exercise	3
HESC 804	Clinical Measures in Ex Phys	3
At least one of the following courses		
HESC 675	Cardiovascular Assessment II	3
HESC 802	Human Cardiovascular Control	3
Total from Area A		15-18

B. A minimum of 2 courses from the following:

HESC 665	Cardiovascular Assessment I	3
HESC 650	Life Span Motor Development	3
HESC 675	Advanced Exercise Prescription	3
HESC 666	Special Problem	1-6
HESC 807	Motor Learning and Control	3
IFST 605	Impact of Aging on the Family	3
BISC 675	Cardiopulmonary Physiology	3
BISC 605	Advanced Mammalian Physiology	4
STAT 615	Design and Analysis of Experiments	3
STAT 617	Multivariate Methods	3
Total from Area B		6-9

C. HESC 869 Thesis in Exercise Physiology

Total from Area C	6
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MASTER OF SCIENCE IN EXERCISE SCIENCE CONCENTRATION: BIOMECHANICS

Biomechanics is an interdisciplinary science that objectively interprets movement in living organisms. Emphasis is placed on techniques of measuring kinematic and kinetic characteristics of living organisms and on mathematical methods of analysis. Students in the MS program in biomechanics are required to conduct research and complete a thesis.

Credit Requirements:

Credits within Exercise Science	15-18
Credits in Cognate Areas	6-9
Thesis	6
Total number of required credits	30

A. Courses Required Within Exercise Science

HESC 601	Research Methods	3
HESC 602	Statistics	3
HESC 603	Seminar in Exercise Science (4 semesters required)	0

HESC 690	Biomechanical Methods	3
HESC 803	Laboratory Instrumentation	3
At least one of the following courses:		
HESC 687	Seminar in Biomechanics	3
HESC 688	Electromyographic Kinesiology	3
Total Credits from Area A		15-18

B. A minimum of 2 courses from the following:

BMSC 601	Mathematics for Biomechanics	3
HESC 650	Life Span Motor Development	3
HESC 691	Gait Laboratory Internship	3
HESC 800	Advanced Physiology of Exercise	3
HESC 807	Motor Learning and Control	3
MEEG 612	Biomechanics of Human Mvt	3
STAT 615	Design and Anal. of Experiments	3
STAT 617	Multivariate Methods	3
EDST 861	Introduction to Stat. Inference	3
EDST 862	Principles of Experimental Design	3
PHYT 604	Functional Anat./Biomechanics	3
PHYT 613	Advanced Orthopedics	3
Total Credits from Area B		6-9

C. HESC 869 Thesis in Biomechanics

Total Credits from Area C	6
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MASTER OF SCIENCE IN EXERCISE SCIENCE CONCENTRATION: MOTOR CONTROL

Motor control is an interdisciplinary science that focuses on neural, physical, and behavioral aspects of the development and regulation of human movement. Emphasis is placed on changes that occur across the lifespan or due to pathology, and adaptations that occur in response to motor learning or exercise training. Students in the MS program in Motor Control are required to conduct research and complete a thesis.

Credit Requirements:

Credits within Exercise Science	15-18
Credits in Cognate Areas	6-9
Thesis	6
Total number of required credits	30

A. Courses Required Within Exercise Science

HESC 601	Research Methods	3
HESC 602	Statistics	3
HESC 603	Seminar in Exercise Science (4 semesters required)	0
HESC 807	Motor Learning and Behavior	3
HESC 651	Neurophysiological Bases of Movement	3
At least one of the following courses		
HESC 657	Seminar in Motor Behavior	3
HESC 808	Seminar in Motor Control	3
Total Credits from Area A		15-18

B. A minimum of 2 courses from the following:

HESC 650	Life Span Motor Development	3
HESC 666	Independent Study	3
HESC 807	Motor Learning and Behavior	3
HESC 803	Intro. to Lab Instrumentation	3
HESC 690	Biomechanical Methods	3
STAT 615	Design and Analysis of Experiments	3
STAT 617	Multivariate Methods	3
EDUC 861	Introduction to Statistical Inference	3
EDUC 862	Principles of Experimental Design	3
EDUC 823	Learning and Development	3
PSYC 612	Human Psychophysiology	3
PSYC 626	Neuroscience I	3
Total Credits from Area B		6-9

C. HESC 869 Thesis in Motor Control

Total Credits from Area C	6
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M.S. IN HEALTH PROMOTION

Telephone: (302) 831-3672

For more information, please visit the health promotion web site at <http://www.udel.edu/HESC/ms-hp.htm>

The Master of Science in Health promotion prepares professionals for the successful design, implementation, and evaluation of health promotion interventions. The Program is

designed to meet the needs of both traditional graduate students and working professionals, with graduates having the skills and knowledge to produce a positive impact on health behaviors.

ADMISSION REQUIREMENTS

1. A bachelor's degree based on a four-year curriculum in an accredited college or university.
2. Acceptable undergraduate transcripts.
3. The equivalent of an undergraduate major in health related discipline.
4. Three letters of recommendation indicating the capability, interest, maturity, and scholarly potential of the candidate for graduate study.
5. Acceptable GRE scores (over 1050 combined math and verbal scores).

Admission is selective and competitive, based on the number of well-qualified applicants and the limits of available faculty and facilities. Those who meet stated minimum academic requirements are not guaranteed admission, nor are those who fail to meet those requirements necessarily precluded from admission if they offer other appropriate strengths. See the Admission Information chapter in this catalog for additional information.

REQUIREMENTS FOR THE DEGREE

The M.S. in Health Promotion is a 33 credit non-thesis program that includes 18 credits of required course work. Students select an area of emphasis that focuses on a specific population or behavior for the remaining requirements. Areas of emphasis include exercise science, nutrition, cardiac rehabilitation, aging or customized study.

M.S. IN HUMAN NUTRITION

Telephone: (302) 831-1006

The M.S. program in Human Nutrition is supported with well-equipped research facilities. Additional linkages available to support graduate research opportunities for students in this program include Delaware Cooperative Extension, the State Division of Aging, the State Division of Public Health, the University Wellness Center, and local health care facilities. Interdisciplinary work is encouraged. There is also opportunity for close liaison with programs in Individual and Family Studies, Animal and Food Sciences, Chemistry and Biochemistry, Biological Sciences, and Nursing, as well as with the other master's programs in the department.

REQUIREMENTS FOR ADMISSION

Requirements for admission include an undergraduate cumulative index (based on a 4.0 system) of 2.75 with a 3.00 average in the major field. Applicants to the thesis option are expected to have a total score (verbal plus quantitative) of 1050 or higher on the Graduate Record Examination. Non-thesis applicants require a GRE of 900 or higher. International students applying for a teaching assistantship must report a paper-based TOEFL score of at least 600 (250 or better on the computer-based TOEFL) and Test of Spoken English (TSE) score of at least 45. A score of 575 or better (231 or better on the computer-based TOEFL) is required for international students who do not apply for a teaching assistantship. Three letters of reference from individuals able to evaluate the applicant's potential for successful graduate work are also necessary to complete the application file. See also the chapter "Graduate Admissions" in this catalog.

Prerequisite courses to regular status include: human or animal physiology, inorganic and organic chemistry, biochemistry (preferably with lab), and one semester of human nutrition having a biochemistry prerequisite. Students planning to pursue thesis research

topics related to social science aspects of nutrition and food habits should have some courses in sociology, psychology, anthropology, etc.

Students seeking to enter the program from undergraduate majors other than nutrition should expect to take prerequisite courses in sciences and nutrition prior to admission on regular status.

Admission to the program is selective and competitive based on the number of applicants and limits of available faculty and facilities. Those who meet minimum academic requirements are not guaranteed admission.

REQUIREMENTS FOR THE DEGREE

THESIS OPTION

A minimum of 32 credits at the graduate level is required, 6 of which are thesis-related and 14-17 credits in the Department of Nutrition and Dietetics (2 seminar credits and 12-15 course credits). The remaining credits are obtained through courses in related areas such as chemistry, biology, statistics/experimental design, food science, physical education, psychology, sociology, anthropology, communication, etc. Selection of these courses will depend in part on the specific needs of the student and on the student's professional or research interests.

Core course requirements include: NTDT 611 (Advanced Nutrition), a graduate level biochemistry course, and a graduate level course in statistics/experimental design.

Degree completion also requires: 1) presentation of thesis research results in seminar format to the departmental faculty, 2) submission of manuscript draft for publication, and 3) satisfactory performance on the final oral examination.

NON-THESIS OPTION

A minimum of 32 credits at the graduate level is required, including 17 credits in the Department of Nutrition and Dietetics and a 3 credit scholarly project. The remaining 15 credits are obtained through non-departmental courses in related areas. Degree completion also requires satisfactory performance on a written comprehensive examination and presentation of scholarly project at a department seminar.

DIETETIC INTERNSHIP CERTIFICATE PROGRAM

A post-baccalaureate dietetic internship developed in cooperation with the Delaware Division of Public Health provides an in-depth experience in clinical nutrition, food service management, and public health nutrition. This program is accredited by the Commission on Accreditation for Dietetics Education and leads to certification as a registered dietitian by the American Dietetic Association. The University of Delaware Dietetic Internship is delivered on-line. Students who live outside the immediate Delaware-Mid-Atlantic region will be required to locate their own preceptors and facilities, subject to approval by the Delaware Internship faculty. Evaluation of eligibility for admission is made by a departmental faculty review committee. Evidence of completion of a baccalaureate degree and courses required as part of the degree-granting didactic program must be provided as part of the application. Acceptance into the internship is on a competitive basis. Applications are read and evaluated by an internship acceptance committee who use a numerical rating scale. Students who provide evidence of a considerable amount of work experience in a professional capacity may be accepted based on the merits of their total application even if the undergraduate grade point average is less than the desired minimum.

Prospective students should submit a completed application form, transcript(s) of all undergraduate and post-baccalaureate course work, Graduate Record Examination (GRE) scores, and three references from individuals able to evaluate the applicant's potential

for successful completion of the internship. Admission to regular status requires 1) GRE scores of 900 or higher (verbal plus quantitative); 2) overall undergraduate grade point average (GPA) of 2.75 or higher; 3) undergraduate GPA of 2.75 or higher in major courses. Students applying for this experience must have completed the courses necessary for American Dietetic Association verification.

Students are required to participate in a two-week orientation at the beginning of the internship and to earn a total of 12 credits. Students must complete the equivalent of 28 weeks of supervised clinical practice, consisting of 38 hours per week: NTDT 550 (fall, 4 credits) and NTDT 551 (spring, 4 credits). In addition, students must complete a 2-hour interactive distance learning seminar each week during both semesters: NTDT 650 (fall, 2 credits) and NTDT 651 (spring, 2 credits). Of the 12 credits required to complete the certificate program, only the four credits from NTDT650 and 651 may be applied toward the Master's degree.

Additional information regarding progress evaluation and retention/termination policies are available from the department office.

NURSING

Telephone (302) 831-1255

For more information, please visit the department web site at <http://www.udel.edu/nursing/graduate.html>

E-mail: UD-gradnursing@udel.edu

The Department of Nursing offers programs leading to a Master of Science in Nursing (M.S.N.) degree, a M.S. in Health Services Administration, and Post-Master's Certificates. The program is designed to prepare Clinical Nurse Specialists (CNS), Health Services Administrators, Family Nurse Practitioners (FNP), and Adult Nurse Practitioners (ANP). Clinical specialization in the CNS concentration is offered in adult health, pediatrics, and psychiatry. Health Services Administration prepares nurses for leadership positions as nurse managers at a variety of levels. The Family and Adult Nurse Practitioner concentrations prepare nurses to provide primary health care to clients. Post-master's certificate programs are available in all specialties for students who already hold a Master of Science in Nursing degree. All graduates are qualified to sit for national certifying examinations.

The graduate program includes core concepts of advanced practice nursing as well as concepts specific to the area of specialization. The curriculum is built on the theories and professional practice students have obtained at the baccalaureate level of nursing education and provides a foundation for future doctoral study.

Independent and interdependent functions of nursing are emphasized as important in achieving the health goals of individuals, families, and communities. Graduates of the program are prepared to improve the quality of nursing practice and to influence the delivery of health care. Clinical resources of the department include a wide variety of facilities in Delaware, Pennsylvania, Maryland, and New Jersey.

The majority of students attend classes on a part-time basis. All on-campus classes are held after 3:00 p.m. in order to accommodate working nurses. Online and web-enhanced delivery methods are available for selected courses. The Health Services Administration concentration is offered totally in a WEB-enhanced or WEB-based format.

The programs offered by the Department of Nursing are fully accredited by the National League for Nursing Accrediting Commission (NLNAC). The address of the National League for Nursing is 360 Hudson Street, NY, NY 10014. (212) 989-9393. They also have received preliminary accreditation from the Commission for Collegiate Nursing Education (CCNE).

M.S.N. PROGRAM

ADMISSION REQUIREMENTS

To be considered for admission, applicants are expected to have a baccalaureate degree in nursing from an NLNAC or CCNE accredited school of nursing. Applicants are evaluated on the following criteria: (1) satisfactory performance in undergraduate academic work as well as in upper-division nursing courses; (2) three satisfactory academic and/or professional references; (3) licensure as a registered nurse in Delaware or in the state where clinical practice is to be arranged; and (4) an interview with a faculty member from the graduate program. For international students, a minimum score of 600 on the paper Test of English as a Foreign Language or 250 on the equivalent computer-based test is required.

One year of recent clinical experience is recommended prior to starting the clinical courses for the CNS and NP students; one year management experience in a health related field or three years experience in a professional health related practice for HSAD students. All applicants are considered on an individual basis.

Admission is selective and competitive based on the number of well-qualified applicants and the limits of available faculty and facilities. Those who meet stated minimum academic requirements are not guaranteed admission, nor are those who fail to meet those requirements necessarily precluded from admission if they offer other appropriate strengths. See also the chapter "Graduate Admissions" in this catalog.

All students are required to meet the Department's annual safety, immunization, insurance, and CPR requirements before enrolling in clinical coursework.

REQUIREMENTS FOR THE DEGREE

Students in the Clinical Nurse Specialist and Health Services Administration concentrations must complete 34 and 37 credit hours of graduate study respectively for the M.S.N. Those pursuing the Family Nurse Practitioner concentration must complete 43 credit hours. Students in the Adult Nurse Practitioner concentration must complete 40 credit hours. All students take at least 13 credits of core courses and research.

Students have the option of writing either a thesis or a non-thesis scholarly project to meet the program requirements or they may complete a Research Application course. Those who choose to write a thesis conduct the necessary research and receive six credits (NURS 669) for the completed study. Students must complete all course requirements within five years of matriculation into the graduate nursing program.

CORE COURSES FOR CNS, FNP, AND ANP		13 Credits
NURS 604	Advanced Practice Roles for Health Care Providers	3
NURS 609	Nursing Science: Theory and Research	4
EDUC 665	Elementary Statistics	3
Choice of one from among the following:		
NURS 668	Scholarly Project	3
NURS 669	Master's Thesis	6
NURS 687	Nursing Science: Research Application	3

CLINICAL NURSE SPECIALIST		Credits
Additional Courses		21
NURS 620	Advanced Health Assessment	3
NURS 621	Advanced Pathophysiology*	3
NURS 660	Clinical Nurse Specialist Advanced Clinical Practice	2
NURS 686	Clinical Nurse Specialist Role Integration	4
Elective		
or		
NURS 622	Advanced Pharmacology	3

(*PSYC 829 Advanced Psychopathology or EDUC 813 Childhood Psychopathology required for Psychiatric CNS instead of NURS 621)

REQUIRED COURSES FOR EACH SPECIALTY:**Nursing of Children**

NURS 654	Nursing of Children I	3
NURS 655	Nursing of Children II	3

Psychiatric Nursing

NURS 671	Psychiatric Mental Health Nursing I	3
NURS 672	Psychiatric Mental Health Nursing II	3

TOTAL CREDITS REQUIRED 34**FAMILY NURSE PRACTITIONER**

43 Credits

Additional Courses		30
NURS 620	Advanced Health Assessment	3
NURS 616	Primary Care in Community Health	3
NURS 621	Advanced Pathophysiology	3
NURS 622	Advanced Pharmacology	3
NURS 623	Management of Women's Health Care	3
NURS 624	Management of Children's Health	3
NURS 625	Management of Adult Episodic Health Needs and Problems	3
NURS 626	Management of Adult Chronic Health Needs and Problems	3
NURS 617	Preceptorship I	3
NURS 627	Preceptorship II	3

TOTAL CREDITS NEEDED 43**ADULT NURSE PRACTITIONER**

40 Credits

ADULT NURSE PRACTITIONER		40 Credits
Additional Courses		27
NURS 620	Advanced Health Assessment	3
NURS 616	Primary Care in Community Health	3
NURS 621	Advanced Pathophysiology	3
NURS 622	Advanced Pharmacology	3
NURS 623	Management of Women's Health Care	3
NURS 625	Management of Adult Episodic Health Needs and Problems	3
NURS 626	Management of Adult Chronic Health Needs and Problems	3
NURS 617	Preceptorship I	3
NURS 627	Preceptorship II	3

TOTAL CREDITS NEEDED 40**HEALTH SERVICES ADMINISTRATION**

37 credits

Core Courses (13 credits: NURS 604, NURS 609, NURS 668, EDUC 665)		
NURS 619	Financial Management in Health Services Organizations	3
NURS 635	Health Administration Theories	3
NURS 637	Health Planning Strategies	3
NURS 638	Health Services Evaluation	3
NURS 664	Health Services Administration Practicum	3
NURS 690	Colloquium	0
UAPP and COMM Selected courses		6

TOTAL CREDITS NEEDED 37**POST MASTER'S CERTIFICATE OPTION**

Post Master's Certificate programs are available in all specialties. The Post Master's Certificate option is designed to provide individuals who already hold a Master of Science in Nursing degree with the core courses and clinical experiences necessary for eligibility for advanced certification. The number of credits varies with the area of concentration and the student's past academic record. Students must complete all course requirements within five years of matriculation into the Post Master's program.

APPLICATION PROCESS FOR POST MASTER'S CERTIFICATE PROGRAMS

To apply to the post-master's certificate programs, applicants must submit an application and an official transcript of undergraduate and master's degrees to the University of Delaware. An interview with faculty is also required.

COURSE REQUIREMENTS:**HEALTH SERVICES ADMINISTRATION**

15 Credits

NURS 619	Financial Management in Health Services Organizations	3
NURS 635	Health Administration Theories	3
NURS 637	Health Planning Strategies	3
NURS 638	Health Services Evaluation	3
NURS 664	Health Services Administration Practicum	3

CLINICAL NURSE SPECIALIST

18 Credits

All tracks require:

NURS 620	Advanced Health Assessment	3
NURS 621	Advanced Pathophysiology*	3
NURS 660	Clinical Nurse Specialist Advanced Clinical Practice	2
NURS 686	Clinical Nurse Specialist Role Integration	4

(*PSYC 829 Advanced Psychopathology or EDUC 813 Childhood Psychopathology required for Psychiatric Nursing Specialty instead of NURS 621.)

REQUIRED COURSES FOR EACH SPECIALTY:**Nursing of Children**

NURS 654	Nursing of Children I	3
NURS 655	Nursing of Children II	3

Psychiatric Nursing

(In addition to core requirements: Total of 18 credits of psychiatric/mental health course work are required to sit for the certification examination)

NURS 671	Psychiatric Mental Health Nursing I	3
NURS 672	Psychiatric Mental Health Nursing II	3
Choose two of the following:		
PSYC 612	Human Psychophysiology	3
IFST 684	Theories of Counseling	3
IFST 690	Special Issues in Counseling Women	3

FAMILY NURSE PRACTITIONER

30 Credits

NURS 620	Advanced Health Assessment	3
NURS 616	Primary Care in Community Health	3
NURS 621	Advanced Pathophysiology	3
NURS 622	Advanced Pharmacology	3
NURS 623	Management of Women's Health Care	3
NURS 624	Management of Children's Health	3
NURS 625	Management of Adult Episodic Health Needs and Problems	3
NURS 626	Management of Adult Chronic Health Needs and Problems	3
NURS 617	Preceptorship I	3
NURS 627	Preceptorship II	3

ADULT NURSE PRACTITIONER

27 Credits

NURS 620	Advanced Health Assessment	3
NURS 616	Primary Care in Community Health	3
NURS 621	Advanced Pathophysiology	3
NURS 622	Advanced Pharmacology	3
NURS 623	Management of Women's Health Care	3
NURS 625	Management of Adult Episodic Health Needs and Problems	3
NURS 626	Management of Adult Chronic Health Needs and Problems	3
NURS 617	Preceptorship I	3
NURS 627	Preceptorship II	3

M.S. IN HEALTH SERVICES ADMINISTRATION

The Department of Nursing offers a major in Health Services Administration leading to a Master of Science degree. Admission to the major requires that students fulfill the following requirements:

1. Completion of a Bachelor's degree in a health-related field, such as nutrition/dietetics, sports medicine/exercise science, physical therapy, occupational therapy, public policy, information sciences, health education, and health promotion and wellness.
2. Completion of one year of management experience in a health-related field or three years experience in professional health-related practice.
3. Satisfactory performance in undergraduate academic work as well as in upper division major courses.
4. Three satisfactory academic and/or professional recommendations.
5. Interview with faculty from the graduate program.
6. Submission of a personal statement concerning goals related to health services administration.

For students for whom English is not a primary language, a minimum score of 600 for the paper test or 250 for the computer based test is required on the Test of English as a Foreign Language. These students may be required to take the Test of Spoken English.

REQUIREMENTS FOR THE DEGREE

1. Completion of a minimum of 36 credits (21 credits of department core requirements; 6 credits of research design and statistics; 6 credits of non-College requirements; and 3 credits of free elective).
2. Three credits of practicum, which may be taken together or in one-credit blocks.
3. Writing of a Scholarly Project.
4. A colloquium presentation on the Scholarly Project.

CORE COURSES

	21 credits
HSAD 604 Advanced Practice Roles for Healthcare Providers	3
HSAD 619 Financial Management in Health Services Administration	3
HSAD 635 Health Administration Theories	3
HSAD 637 Health Planning Strategies	3
HSAD 638 Health Services Evaluation	3
HSAD 664 Health Services Administration Practicum	3
HSAD 668 Health Services Administration Scholarly Project	1-3
HSAD 690 Colloquium	0

NON-DEPARTMENT COURSES

	6 credits
Human Resource Management (select one)	3
UAPP 685 Personnel and Human Resource Issues	3
UAPP 837 Human Resources Management in Public and Nonprofit Sectors	3
Communication Theory (select one)	3
COMM 610 Organizational Communication Theory	3
COMM 642 Topics in Organizational Communication	3
COMM 656 Communication in Organizations	3

RESEARCH DESIGN AND STATISTICS

	6 credits
Research Design (select one)	3
PSYC 809 Research Design	3
IFST 815 Research Issues and Designs	3
UAPP 800 Research Design and Methodologies	3
IFST 615 Research Methods	3
Statistics (select one)	3
EDUC 665 Elementary Statistics	3
UAPP 815 Public Management Statistics	3
Free Elective	3
TOTAL	36

MASTER OF SCIENCE IN NURSING FOR THE REGISTERED NURSE (M.S.N.)

The Department of Nursing offers a separate program to allow registered nurses an opportunity to earn a Master of Science in Nursing concurrently with a Bachelor of Science in Nursing. The number of credits for both degrees is 134. Licensed registered nurses who are graduates of associate degree or diploma programs may apply for admission to this program.

Students are admitted to the Baccalaureate Program for the Registered Nurse (BRN) program. Before enrollment in any nursing courses, students must meet the following criteria:

- Successful completion of RN licensure exam (30 credits nursing knowledge awarded)
- Completion of 60 pre-requisite non-nursing credits (See BRN program information.)
- GPA of 3.0 or higher for non-nursing prerequisite courses

**DEGREE: BACHELOR OF SCIENCE IN NURSING and
MASTER OF SCIENCE IN NURSING**
MAJOR: NURSING
CURRICULUM

CREDITS

UNIVERSITY REQUIREMENTS

ENGL 110	Critical Reading and Writing (minimum grade C-)	3
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Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content (see p. 66-71) 3

MAJOR REQUIREMENTS

24 credits, to include a minimum of one course in each of the following five categories: (1) biology, (2) microbiology, (3) chemistry, (4) anatomy and physiology, and (5) nutrition 24

English course (second English composition course) 3

Literature course 3

Philosophy course 3

Psychology course 3

Sociology course 3

Lifespan development course 3

Restricted elective chosen from the following 3

Art, Art History, History, Philosophy, Music, Theatre, Comparative Literature, Black American Studies, Economics, Political Science, Women's Studies, Foreign Languages and Literatures, Linguistics, and English.

CORE COURSES FOR ALL SPECIALTIES

NURS 335	BRN Orientation	1
NURS 411	Topics in Health Care Delivery (Nursing Elective)	6
NURS 435	Leadership & Management in Health Organizations	3
NURS 442	Community Health Nursing	3
NURS 604	Advanced Nursing Roles	3
NURS 609	Nursing Science: Theory & Research	4
NURS 620	Advanced Health Assessment	3
NURS 621	Advanced Pathophysiology*	3

(*PSYC 829 Advanced Psychopathology or EDUC 813 Childhood Psychopathology required for Psychiatric Clinical Nurse Specialist program.)

EDUC 665	Elementary Statistics	3
NURS 660	Clinical Nurse Specialist Advanced Clinical Practice	2
NURS 686	Clinical Nurse Specialist Role Integration	4

Three credits from among the following: 3

NURS 668	Scholarly Project	
NURS 669	Master's Thesis	
NURS 687	Nursing Science: Research Application	

Six credits from among the following CNS specialty courses are required for each specialty. 6

Nursing of Children

NURS 654	Nursing of Children I	3
NURS 655	Nursing of Children II	3

Psychiatric Nursing

NURS 671	Psychiatric Mental Health Nursing I	3
NURS 672	Psychiatric Mental Health Nursing II	3

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credits required for the degree

TOTAL CREDITS REQUIRED. 134