

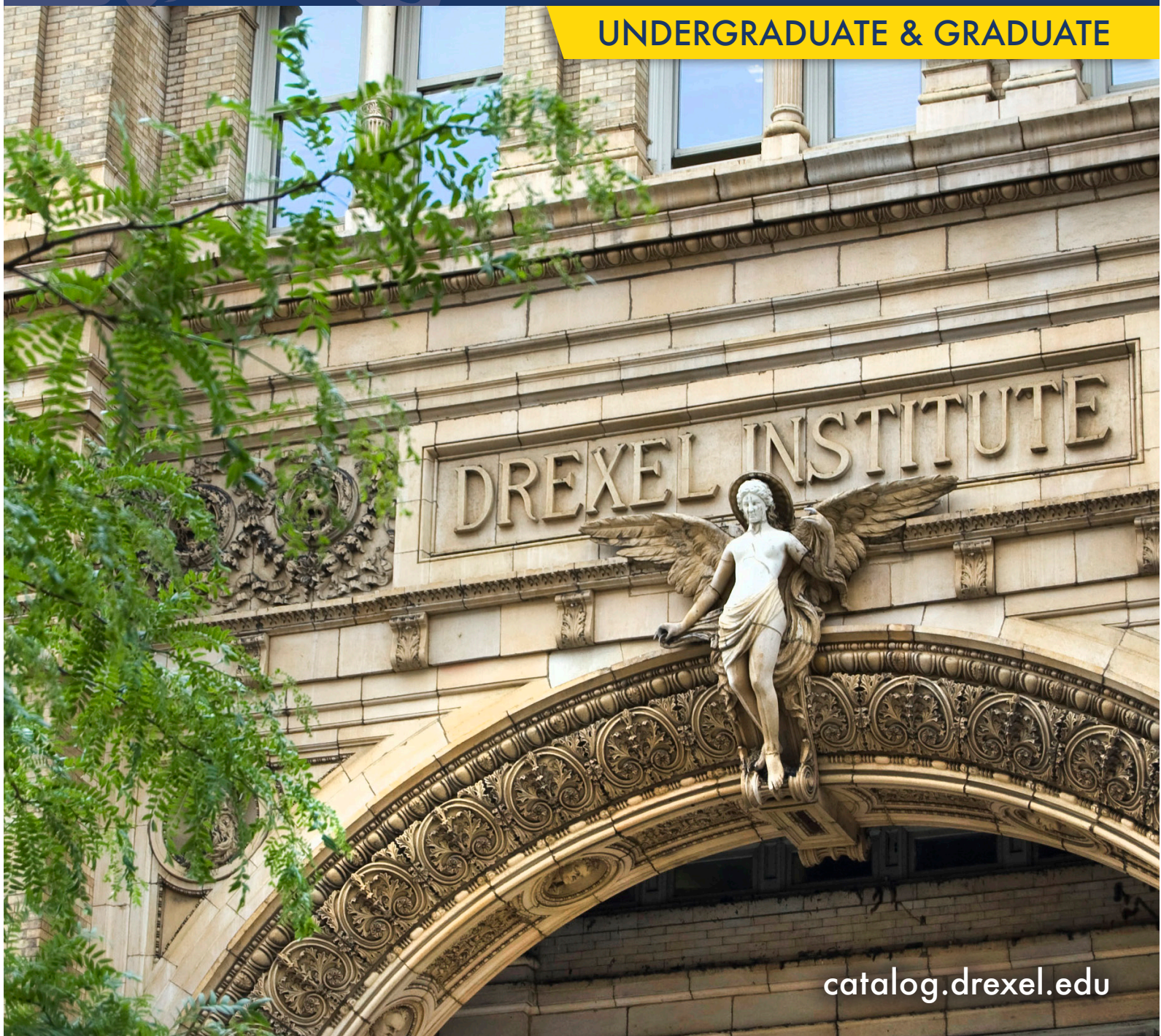


DREXEL UNIVERSITY  
College of  
Nursing and  
Health Professions

# CATALOG

2012-2013

UNDERGRADUATE & GRADUATE



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# About the College of Nursing and Health Professions: Undergraduate

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By anticipating and meeting the challenges presented by the nation's health care system, Drexel's College of Nursing and Health Professions is doing its part to guarantee a lasting legacy for current and future health professionals.

The College of Nursing and Health Professions offers a wide range of undergraduate programs. Many offer flexible scheduling, making it possible for students to continue their education through part-time, online, night, or weekend study.

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## About the College

As the practice of medicine has become more complex with the advent of technology and new drug therapies, so has the provision of health services. An increasingly diverse, aging U.S. population experiencing higher rates of chronic illness is demanding more service and culturally competent care. While technology improvements help provide the means to deliver safer, high-quality care, our society is facing shortages in health professionals such as nurses, mental health workers, nurse anesthetists, physician assistants, and rehabilitation science professionals. The demand for these and other skilled professionals continues to increase and is expected to remain steady well into the 21st century. There is no more vibrant a place to prepare for these kinds of meaningful, rewarding

careers than at Drexel University's College of Nursing and Health Professions (<http://www.drexel.edu/cnhp>). The College offers associate's, bachelor's, master's, and doctoral degrees in more than a dozen health care fields.

Just as the health profession disciplines have come of age, so has the College of Nursing and Health Professions. Founded in 1969 as the College of Allied Health Professions with just three degree programs and a faculty of five, the college has undergone a remarkable evolution. Today it serves more than 3,000 students with a broad array of contemporary program offerings. Along the way, it has earned widespread recognition and accreditation for the education of health professionals.

## Mission and Approach

The College believes that the health care needs of today and tomorrow can best be met by professionals who have expertise in their own fields and a concurrent understanding of other health disciplines. In addition to providing a broad-based education that balances academic learning with clinical training, the University promotes collaboration among students in our College of Nursing and Health Professions, our School of Public Health, and the College of Medicine, which draws from the rich traditions of predecessors Hahnemann University and the Medical College of Pennsylvania.

Teamwork is as important in academics as it is in health care. The College of Nursing and Health Professions' dedicated and knowledgeable faculty members work closely with students, providing a supportive and creative learning environment. Graduates from the College possess a wide range of experiences and the knowledge, compassion, and lifelong learning skills needed to become accomplished health care professionals.

The student body, which is diverse in age and culture, reflects Drexel University's commitment to provide qualified students with an opportunity for advanced education. Drexel welcomes nontraditional applicants and especially encourages applications from underrepresented minorities and those interested in practicing in underserved areas.

Many of Drexel's College of Nursing and Health Professions programs offer flexible scheduling, making it possible for students to continue their education through part-time, online, night, or weekend study.

## Accreditation

Nursing programs are accredited by the CCNE (Commission on Collegiate Nursing Education), and the PA State Board of Nursing.

The Couple and Family Therapy MFT degree and Post-Master's Certificates are accredited by COAMFTE (Commission on Accreditation of Marriage and Family Therapy Education).

The Creative Arts in Therapy MA degrees in Dance/Movement Therapy, Music Therapy, and Art Therapy are approved by the ADTA (American Dance Therapy Association), the AMTA (American Music Therapy Association), and the AATA (American Art Therapy Association), respectively.

The Didactic Program in Nutrition is accredited by ACEND (Accreditation Council for Education in Nutrition and Dietetics).

The Health Services Administration program is certified by AUPHA (Association of University Programs in Health Administration).

The Nurse Anesthesia program is accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs.

The Professional Physical Therapy (DPT) program is accredited by CAPTE (Commission on Accreditation in Physical Therapy Education).

The Physician Assistant program is accredited by ARC-PA (Accreditation Review Commission on Education for the Physician Assistant).

## Behavioral Health Counseling

### About the Program

*Bachelor of Science Degree: 180.0 quarter credits*

The Behavioral Health Counseling program focuses on developing competencies needed to engage in clinical services and support for people experiencing mental illnesses and substance use disorders. Students create a plan of study and select courses based on interests in careers such as psychiatric rehabilitation, prevention and treatment of substance use disorders, child and adolescent services, forensic behavioral health and related areas within systems of care for people with behavioral health problems.

During the freshman and sophomore years, students develop a foundation for clinical practice by studying humanities, social sciences, writing, biological sciences, math and research methods. Behavioral Health Counseling (BHC) courses build on this foundation by demonstrating that biological, psychological, and social perspectives are needed to deliver today's evidence-based practices—and to develop the next generation of innovative interventions. BHC courses offer a comprehensive selection of essential subjects and advanced practice electives that focus on establishing therapeutic relationships with people from diverse backgrounds and needs.

The Behavioral Health Counseling major also offers a co-op experience in a clinical setting that greatly enhances the student's preparation for employment after graduation and for graduate study in professional counseling, social work or psychology. For students interested in certification as addictions counselors, all program courses are accredited by the Pennsylvania Certification Board. Students may also pursue certification in psychiatric rehabilitation.

For additional information about this major, visit the Behavioral Health Counseling (<http://www.drexel.edu/behavioralHealth>) Department on the College of Nursing and Health Profession's site.

### Degree Requirements

#### General Education Requirements

UNIV NH101	The Drexel Experience	2.0
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#### Computing Requirement

CS 161	Introduction to Computing	3.0
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#### English Sequence

ENGL 101	Expository Writing and Reading	3.0
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ENGL 102	Persuasive Writing and Reading	3.0
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ENGL 103	Analytical Writing and Reading	3.0
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#### Life Science

BIO 100	Applied Cells, Genetics & Physiology	3.0
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or BIO 107	Cells, Genetics & Physiology	
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#### Mathematics Sequence

MATH 107	Probability and Statistics for Liberal Arts	3.0
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<b>Humanities and Social Sciences Electives *</b>		39.0
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<b>Free Electives</b>		51.0
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#### Required Behavioral Health Counseling Courses

BACS 100	Life Span Human Development	3.0
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BACS 200	Foundation of Behavioral Health Care	3.0
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BACS 220	Counseling Theory and Practice	3.0
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BACS 230	Genetics and Mental Health	3.0
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BACS 232	Ethics and Professional Responsibility	3.0
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BACS 234	Introduction to Addictive Disorders	3.0
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BACS 236	Psychiatric Rehabilitation Principles and Practices	3.0
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BACS 255	Multicultural Counseling	3.0
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BACS 301	Group Counseling I	3.0
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BACS 304	Cognitive and Behavioral Counseling I	3.0
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BACS 310	Recovery and Relapse Prevention	3.0
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BACS 312	Case Management Methods	3.0
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BACS 320	Crisis and Brief Intervention	3.0
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BACS 325	Psychopharmacology for Counselors	3.0
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BACS 401	Assessment and Treatment Planning	3.0
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BACS 405	Family-Focused Interventions	3.0
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BACS 490	Senior Research Project	3.0
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BACS 499	Readings in Behavioral Health	1.0
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#### Advanced Program Electives

Select from the following: **		18.0
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BACS 250	Behavioral Health Informatics	
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BACS 350	Child Psychopathology	
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BACS 360	Preventing Substance Abuse	
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BACS 367	Advanced Counseling Intervention	
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BACS 368	Addictions Counseling with Special Populations	
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BACS 370	Problem Gambling Interventions	
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BACS 404	Cognitive and Behavioral Counseling II	
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BACS 410	Child and Adolescent Support	
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BACS 411	Forensic Behavior Health Service	
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BACS 412	Group Counseling II	
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BACS 414	Co-Occurring Disorders	
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BACS 420	Psychiatric Rehabilitation Competencies	
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<b>Total Credits</b>		180.0
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\* Students enrolled in the Saturday Scholars program may have slightly different general elective requirements. Saturday Scholars students should check with their Advisor for guidance.

\*\* Students select a minimum of 18.0 credits, and up to 33.0 credits of advanced program electives (as needed).

### Sample Plans of Study

#### BS Behavioral Health Counseling: 4-Year Co-op Concentration

(Scroll down for BS Behavioral Health Counseling: 4-Year Non-Co-op Concentration)

<b>Term 1</b>		<b>Credits</b>	BACS 310 Recovery and Relapse Prevention	3.0
ENGL 101 Expository Writing and Reading		3.0	BACS Advanced Program elective	3.0
MATH 107 Probability and Statistics for Liberal Arts		3.0	Humanities/Social Science elective	3.0
UNIV NH101 The Drexel Experience		1.0	Free electives	6.0
Three (3) Humanities/Social Science electives		9.0	<b>Term Credits</b>	<b>15.0</b>
<b>Term Credits</b>		<b>16.0</b>	<b>Term 10</b>	
<b>Term 2</b>			BACS 320 Crisis and Brief Intervention	3.0
ENGL 102 Persuasive Writing and Reading		3.0	BACS Advanced Program elective	3.0
UNIV NH101 The Drexel Experience		2.0	Free electives	9.0
Two (2) Humanities/Social Science electives		6.0	<b>Term Credits</b>	<b>15.0</b>
Free electives		6.0	<b>Term 11</b>	
<b>Term Credits</b>		<b>17.0</b>	BACS 405 Family-Focused Interventions	3.0
<b>Term 3</b>			BACS 490 Senior Research Project	3.0
BACS 200 Foundation of Behavioral Health Care		3.0	BACS Advanced Program elective	3.0
ENGL 103 Analytical Writing and Reading		3.0	Free electives	6.0
Two (2) Humanities/Social Science electives		6.0	<b>Term Credits</b>	<b>15.0</b>
Free elective		3.0	<b>Term 12</b>	
<b>Term Credits</b>		<b>15.0</b>	BACS 312 Case Management Methods	3.0
<b>Term 4</b>			BACS 401 Assessment and Treatment Planning	3.0
BACS 100 Life Span Human Development		3.0	BACS 499 Readings in Behavioral Health	1.0
BACS 220 Counseling Theory and Practice		3.0	BACS Advanced Program Electives	6.0
BACS 236 Psychiatric Rehabilitation Principles and Practices		3.0	<b>Term Credits</b>	<b>13.0</b>
BIO 100 Applied Cells, Genetics & Physiology or 107 Cells, Genetics & Physiology		3.0	Total Credit: 181.0	
Humanities/Social Science elective		3.0	<b>BS Behavioral Health Counseling: 4-Year Non-Co-op Concentration</b>	
<b>Term Credits</b>		<b>15.0</b>	<b>Term 1</b>	<b>Credits</b>
<b>Term 5</b>			ENGL 101 Expository Writing and Reading	3.0
BACS 230 Genetics and Mental Health		3.0	UNIV NH101 The Drexel Experience	1.0
BACS 232 Ethics and Professional Responsibility		3.0	MATH 107 Probability and Statistics for Liberal Arts	3.0
CS 161 Introduction to Computing		3.0	Three (3) Humanities/Social Science electives	9.0
Humanities/Social Science elective		3.0	<b>Term Credits</b>	<b>16.0</b>
Free elective		3.0	<b>Term 2</b>	
<b>Term Credits</b>		<b>15.0</b>	ENGL 102 Persuasive Writing and Reading	3.0
<b>Term 6</b>			UNIV NH101 The Drexel Experience	1.0
BACS 234 Introduction to Addictive Disorders		3.0	Two (2) Humanities/Social Science electives	6.0
BACS 255 Multicultural Counseling		3.0	Free electives	6.0
BACS 325 Psychopharmacology for Counselors		3.0	<b>Term Credits</b>	<b>16.0</b>
Humanities/Social Science elective		3.0	<b>Term 3</b>	
Free elective		3.0	BACS 200 Foundation of Behavioral Health Care	3.0
<b>Term Credits</b>		<b>15.0</b>	ENGL 103 Analytical Writing and Reading	3.0
<b>Term 7</b>			Two (2) Humanities/Social Science electives	6.0
Humanities/Social Science elective		3.0	Free elective	3.0
Free electives		12.0	<b>Term Credits</b>	<b>15.0</b>
<b>Term Credits</b>		<b>15.0</b>	<b>Term 4</b>	
<b>Term 8</b>			BACS 100 Life Span Human Development	3.0
BACS 301 Group Counseling I		3.0	BACS 220 Counseling Theory and Practice	3.0
BACS 304 Cognitive and Behavioral Counseling I		3.0	BACS 236 Psychiatric Rehabilitation Principles and Practices	3.0
BACS Advanced Program elective		3.0	BIO 101 Applied Biological Diversity, Ecology & Evolution or 107 Cells, Genetics & Physiology	3.0
Humanities/Social Science elective		3.0	Humanities/Social Science elective	3.0
Free elective		3.0	<b>Term Credits</b>	<b>15.0</b>
<b>Term Credits</b>		<b>15.0</b>		
<b>Term 9</b>				

**Term 5**

BACS 230	Genetics and Mental Health	3.0
BACS 232	Ethics and Professional Responsibility	3.0
CS 161	Introduction to Computing	3.0
	Humanities/Social Science elective	3.0
	Free elective	3.0

**Term Credits****15.0****Term 6**

BACS 234	Introduction to Addictive Disorders	3.0
BACS 255	Multicultural Counseling	3.0
BACS 325	Psychopharmacology for Counselors	3.0
	Humanities/Social Science elective	3.0
	Free elective	3.0

**Term Credits****15.0****Term 7**

BACS 301	Group Counseling I	3.0
BACS 304	Cognitive and Behavioral Counseling I	3.0
	Humanities/Social Science elective	3.0
	BACS Advanced Program elective	3.0
	Free elective	3.0

**Term Credits****15.0****Term 8**

BACS 310	Recovery and Relapse Prevention	3.0
	BACS Advanced Program elective	3.0
	Humanities/Social Science elective	3.0
	Free electives	6.0

**Term Credits****15.0****Term 9**

	Humanities/Social Science elective	3.0
	Free electives	12.0

**Term Credits****15.0****Term 10**

BACS 320	Crisis and Brief Intervention	3.0
	BACS Advanced Program elective	3.0
	Free electives	9.0

**Term Credits****15.0****Term 11**

BACS 405	Family-Focused Interventions	3.0
BACS 490	Senior Research Project	3.0
	BACS Advanced Program elective	3.0
	Free electives	6.0

**Term Credits****15.0****Term 12**

BACS 312	Case Management Methods	3.0
BACS 401	Assessment and Treatment Planning	3.0
BACS 499	Readings in Behavioral Health	1.0
	BACS Advanced Program electives	6.0

**Term Credits****13.0**

Total Credit: 180.0

## Co-op/Career Opportunities

Drexel University has long been known for its co-operative education program, through which students mix periods of full-time, career related employment with their studies. The Behavioral Health Counseling curriculum includes one co-op option that exposes students to the varied work environments of behavioral health professionals. Co-op provides students with an opportunity to assess their personal strengths and interests for a career in behavioral health by observing successful mental health and addictions professionals in action. Co-op students work for six months in paid or unpaid positions consistent with their interests, abilities, and aptitudes.

## After Graduation

Graduates of the Behavioral Health Counseling program are widely acknowledged by regional employers as being among their best prepared new employees. This reputation helps graduates easily find preferred employment in a variety of behavioral health care settings. Many graduates elect to continue their education in graduate and doctoral programs at Drexel or leading universities across the nation. Within Drexel, students may select excellent graduate programs preparing them for licensure as behavioral health clinicians and/or administrative, research, and behavioral health policy-making positions.

## Career Opportunities

Behavioral health counseling professionals are employed in a wide range of venues. Counselors are needed in social service agencies, schools, health care facilities, and inpatient and residential treatment settings. Counselors work with children, adolescents, adults, and elderly individuals who experience disability due to mental illnesses or substance use disorders. Graduates who choose to enter the behavioral health workforce find immediate employment in areas such as psychiatric rehabilitation; family and child support services; addictions counseling; case management and services coordination; forensic mental health services; individual and group counseling; and crisis intervention.

The behavioral health care field is tremendously diverse and encompasses far more career opportunities than are listed here. There are career choices to be made at all levels of service — from direct care to administration and policy making. In this regard, students will find tremendous benefit both in the listings and outreach offered by Drexel's Steinbright Career Development Center and in the diverse professional career experience our faculty bring to our students.

Visit the Drexel Steinbright Career Development Center (<http://www.drexel.edu/scdc>) page for more detailed information on post-graduate opportunities.

## Facilities

The College of Nursing and Health Professions is located at Drexel University's Health Sciences Campus located in Center City. A Clinical Learning Resource Center (<http://www.drexel.edu/cnhp/cicsp/default.asp>) offers a simulation lab where students practices skills needed in their chosen behavioral health professions careers. Sessions are video captured to allow students the opportunity to observe and critique their performance.



# Pathway to Health Professions: Health Sciences

## About the Program

*Bachelor of Science Degree: 180.0 quarter credits*

The Pathway to Health Professions curriculum is a four-year course of study with one co-op experience, leading to a BS degree in Health Sciences. Health sciences and clinical sciences courses are combined with mathematics, humanities, and social sciences electives into a fully-integrated curriculum that prepares students for the pursuit of careers in the health professions.

The College of Nursing and Health Professions' Pathway to Health Professions program provides a four-year course of study, leading to the BS degree, for students who wish to study toward health professions careers. Health sciences and clinical sciences courses are combined with mathematics, humanities, and social sciences electives into a fully integrated curriculum that prepares students for the pursuit of health professions careers in the fields of nursing, cardiovascular perfusion, physician assistant studies, exercise physiology, cardiac rehabilitation therapy, occupational therapy, and physical therapy.

Courses in clinical research (protocol design, research methods, data management, and governmental and regulatory issues) are also included in the curriculum. These courses are designed to give students a strong foundation in clinical research and to prepare them for possible employment in clinical research settings. The clinical research content of the curriculum is also very appropriate for the preparation of students for post-baccalaureate and graduate studies in the health professions.

## Co-Op Opportunities

Drexel University has long been known for its co-operative education programs, through which students mix periods of full-time, career related employment with their studies. Some co-op employers of previous Pathway to Health Professions students have included Children's Hospital of Philadelphia, McGee Rehabilitation Hospital, Bryn Mawr Rehabilitation Hospital, Hahnemann, Good Shepherd Penn Partners and NovaCare, as well as many other health care facilities in the region.

## After Graduation

Some graduates of the Pathway to Health Professions program will choose to pursue employment opportunities in clinical research settings, and some will choose to continue their education by enrolling in post-baccalaureate and graduate programs leading to a variety of health professions careers.

## Career Opportunities

Graduates of the Pathway to Health Professions program may choose to enter the workforce in the field of clinical research. Clinical research is a rapidly expanding enterprise. There is a great need for trained individuals to fill positions on clinical research teams that are performing the research necessary to obtain FDA approval of new drugs, new medical devices, and new medical procedures. Clinical research is performed in clinics, hospital wards, pharmaceutical companies, medical device firms, doctors' offices, operating rooms, and other health care settings. In those settings, graduates of the program can fill positions in which they are responsible for interacting with physicians whose patients are participating in the research study, interviewing participants, taking medical histories, obtaining informed consent, collecting, entering and compiling data, and

manipulating data for publication of research results. These activities require individuals with advanced training in the policies and procedures of clinical research. Graduates of the program will have that knowledge, and they will understand the procedures for designing and implementing clinical research protocols and the governmental regulations governing clinical research projects.

## Post-Baccalaureate and Graduate Studies

The curriculum of the Pathway to Health Professions program is designed to provide a strong foundation for those students who will proceed after graduation to post-baccalaureate and graduate programs in the health professions. The curriculum enables students to fulfill all of the prerequisites for these post-baccalaureate and graduate programs. The co-op experiences that students of the program undertake will serve to fulfill the requirement of the post baccalaureate and graduate programs that their applicants have personal exposure to the profession before they apply.

The Pathway to Health Professions program serves as a feeder program for the Second Degree Fast-Track Nursing program, the Cardiovascular Perfusion program, the Physician Assistant Studies program, and the Doctor of Physical Therapy program of the College of Nursing and Health Professions. Graduates of the Pathway to Health Professions program may also continue their education in the biomedical graduate programs of the Drexel University College of Medicine (such as the MS in Clinical Research and MS in Pathologist's Assistant programs).

For more information, visit the Pathway to Health Professions Program (<http://www.drexel.edu/healthSciences/programs/healthProfessions>) page at the College of Nursing and Health Professions web site.

## Degree Requirements

### General Requirements

UNIV NH101	The Drexel Experience	2.0
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### English Sequence

ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0

### Biology Sequence

BIO 122	Cells and Genetics	4.5
BIO 124	Evolution & Organismal Diversity	4.5
BIO 126	Physiology and Ecology	4.5
BIO 226	Microbiology for Health Professionals	5.0

### Chemistry Sequence

CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
CHEM 103	General Chemistry III	5.0

### Mathematics Sequence

MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0

### Computer Science Course

CS 161	Introduction to Computing	3.0
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### Other Humanities and Social Sciences Courses

COM 310 [WI]	Technical Communication	3.0
COM 320 [WI]	Science Writing	3.0
ECON 240	Economics of Health Care Systems	4.0

HSAD 210	Health-Care Ethics I	3.0
HSAD 309	Advanced Health-Care Ethics	3.0
PSY 101	General Psychology I	3.0
PSY 120	Developmental Psychology	3.0
PSY 240 [WI]	Abnormal Psychology	3.0
SOC 101	Introduction to Sociology	3.0
SOC 120	Sociology of the Family	3.0
SOC 125	Sociology of Aging	3.0
Three Humanities and Social Sciences electives		9.0
<b>Pathway to Health Professions Courses</b>		
<b>Anatomy &amp; Physiology Courses</b>		
ANAT 101	Anatomy & Physiology I	5.0
ANAT 102	Anatomy & Physiology II	5.0
ANAT 103	Anatomy & Physiology III	5.0
<b>Clinical Research Courses</b>		
HSCI 310	Introduction to Clinical Research	3.0
HSCI 313	Clinical Trials Protocols	4.0
HSCI 315	Current Issues in Clinical Research	3.0
<b>Other Health Sciences Courses</b>		
HSCI 201	Health Assessment through the Lifespan	4.0
HSCI 301	Pharmacology I	3.0
HSCI 302	Pharmacology II	3.0
HSCI 337	Genetics and Health	3.0
HSCI 204	Clinical Health Informatics	3.0
STS 345	Statistics for the Health Sciences	4.0
STS 350	Advanced Statistics for Clinical Science	4.0
Six Health Sciences electives *		22.0
<b>Free Electives</b>		12.5
<b>Total Credits</b>		180.0

\* Health Science electives include: Advanced Anatomy I & II; Developmental Anatomy (WI); Physiology; Pathophysiology (WI); Exercise Physiology; Applied Anatomy & Kinesiology; and Sectional Anatomy or NEUR 410 Neurosciences. Certain Health Services Administration courses may also be taken as Health Science electives.

## Sample Plan of Study

### First Year

		Credits
<b>Fall</b>		
BIO 122	Cells and Genetics	4.5
CHEM 101	General Chemistry I	3.5
CS 161	Introduction to Computing	3.0
ENGL 101	Expository Writing and Reading	3.0
UNIV NH101	The Drexel Experience	1.0
<b>Term Credits</b>		<b>15.0</b>
<b>Winter</b>		
BIO 124	Evolution & Organismal Diversity	4.5
CHEM 102	General Chemistry II	4.5
ENGL 102	Persuasive Writing and Reading	3.0
MATH 101	Introduction to Analysis I	4.0

UNIV NH101	The Drexel Experience	1.0
<b>Term Credits</b>		<b>17.0</b>

### Spring

BIO 126	Physiology and Ecology	4.5
CHEM 103	General Chemistry III	5.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 102	Introduction to Analysis II	4.0
<b>Term Credits</b>		<b>16.5</b>

### Second Year

#### Fall

ANAT 101	Anatomy & Physiology I	5.0
BIO 226	Microbiology for Health Professionals	5.0
COM 310	Technical Communication	3.0
[WI]		
STS 345	Statistics for the Health Sciences	4.0
<b>Term Credits</b>		<b>17.0</b>

#### Winter

ANAT 103	Anatomy & Physiology III	5.0
COM 320	Science Writing	3.0
[WI]		
HSAD 210	Health-Care Ethics I	3.0
STS 350	Advanced Statistics for Clinical Science	4.0
<b>Term Credits</b>		<b>15.0</b>

#### Spring

ANAT 103	Anatomy & Physiology III	5.0
COM 320	Science Writing	3.0
[WI]		
HSAD 210	Health-Care Ethics I	3.0
HSCI 313	Clinical Trials Protocols	4.0
<b>Term Credits</b>		<b>15.0</b>

### Third Year

#### Fall

HSCI 201	Health Assessment through the Lifespan	4.0
HSCI 301	Pharmacology I	3.0
SOC 101	Introduction to Sociology	3.0
Free Elective		3.0
<b>Term Credits</b>		<b>13.0</b>

#### Winter

HSAD 309	Advanced Health-Care Ethics	3.0
HSCI 315	Current Issues in Clinical Research	3.0
HSCI 337	Genetics and Health	3.0
Health Elective *		3.0
Free Elective		2.0
<b>Term Credits</b>		<b>14.0</b>

#### Spring

HSCI 204	Clinical Health Informatics	3.0
HSCI 302	Pharmacology II	3.0
PSY 120	Developmental Psychology	3.0
SOC 120	Sociology of the Family	3.0
Free Elective		2.0
<b>Term Credits</b>		<b>14.0</b>

**Fourth Year****Fall**

ECON 240	Economics of Health Care Systems	4.0
Health Electives*		8.0
Free Elective		3.0

**Term Credits 15.0**

**Winter**

SOC 125	Sociology of Aging	3.0
Health Elective*		3.0
Humanities/Social Science Electives		6.0
Free Elective		2.5

**Term Credits 14.5**

**Spring**

PSY 240 [WI]	Abnormal Psychology	3.0
Humanities/Social Science Elective		3.0
Health Electives*		8.0

**Term Credits 14.0**

Total Credit: 180.0

\* See degree requirements (p. 8).

**Accelerated Career Entry 3+1 BSN option**

*Bachelor of Science in Nursing Degree 214.5 quarter credits*

The Pathway to Health Professions and the Accelerated Career Entry (ACE) to Nursing program have created a new undergraduate program, entitled "Health Sciences - ACE 3+1 BSN" for the College of Nursing and Health Professions of Drexel University.

The program is based on the 4-year, one co-op curricular model. The program combines the first three years of the Pathway to Health Professions Program (Health Sciences major) with the one-year Accelerated Career Entry (ACE) to Nursing program. Students can only enter this accelerated program as freshmen. The accelerated HSCI-ACE program is not available to transfer students.

**Freshman****Fall**

BIO 122	Cells and Genetics	4.5
CHEM 101	General Chemistry I	3.5
CS 161	Introduction to Computing	3.0
ENGL 101	Expository Writing and Reading	3.0
UNIV NH101	The Drexel Experience	1.0

**Term Credits 15.0**

**Winter**

BIO 124	Evolution & Organismal Diversity	4.5
CHEM 102	General Chemistry II	4.5
ENGL 102	Persuasive Writing and Reading	3.0
MATH 101	Introduction to Analysis I	4.0
UNIV NH101	The Drexel Experience	1.0

**Term Credits 17.0**

**Spring**

BIO 126	Physiology and Ecology	4.5
CHEM 103	General Chemistry III	5.0

ENGL 103	Analytical Writing and Reading	3.0
MATH 102	Introduction to Analysis II	4.0

**Term Credits 16.5**

**Sophomore****Fall**

ANAT 101	Anatomy & Physiology I	5.0
COM 310 [WI]	Technical Communication	3.0
HSAD 210	Health-Care Ethics I	3.0
STS 345	Statistics for the Health Sciences	4.0

**Term Credits 15.0**

**Winter**

ANAT 102	Anatomy & Physiology II	5.0
HSCI 204	Clinical Health Informatics	3.0
PSY 101	General Psychology I	3.0
STS 350	Advanced Statistics for Clinical Science	4.0

**Term Credits 15.0**

**Spring**

ANAT 103	Anatomy & Physiology III	5.0
HSAD 309	Advanced Health-Care Ethics	3.0
HSCI 310	Introduction to Clinical Research	3.0
COM 320 [WI]	Science Writing	3.0

**Term Credits 14.0**

**Summer**

HSCI 201	Health Assessment through the Lifespan	4.0
HSCI 301	Pharmacology I	3.0
HSCI 313	Clinical Trials Protocols	4.0
NFS 200	Nutrition I: Principles of Nutrition	4.0
SOC 101	Introduction to Sociology	3.0

**Term Credits 18.0**

**Junior****Spring**

HSCI 337	Genetics and Health	3.0
BIO 226	Microbiology for Health Professionals	5.0
Health Elective*		4.0
Free Elective		4.0

**Term Credits 16.0**

**Summer**

HSCI 302	Pharmacology II	3.0
HSCI 315	Current Issues in Clinical Research	3.0
NFS 203	Nutrition II: Nutrition in the Lifecycle	4.0
PSY 120	Developmental Psychology	3.0
SOC 120	Sociology of the Family	3.0

**Term Credits 16.0**

**Senior****Fall**

ECON 240	Economics of Health Care Systems	4.0
NURS 200	Principles of Nursing Practice	6.0

Two Nursing (NURS) courses. See Department Head for required courses. 6.0

**Term Credits**

**16.0**

**Winter**

NURS 300 Comprehensive Adult Nursing I 6.0

NURS 303 Women's Health Nursing 6.0

NURS 308 Mental Health Nursing 6.0

**Term Credits**

**18.0**

**Spring**

NURS 304 Nursing of Children 6.0

NURS 305 Comprehensive Adult Nursing II 6.0

NURS 403 Community Public Health Nursing 6.0

**Term Credits**

**18.0**

**Summer**

NURS 330 Research Basis of Nursing [WI] 4.0

NURS 400 Leadership, Management, and Entrepreneurship in Nursing [WI] 3.0

NURS 401 Comprehensive Adult Nursing III 6.0

NURS 450 Contemporary Gerontological Nursing 6.0

NURS 492 Senior Seminar in Nursing 3.0

**Term Credits**

**22.0**

Total Credit: 216.5

\* Health Science electives include: Advanced Anatomy I & II; Developmental Anatomy (WI); Physiology; Pathophysiology (WI); Exercise Physiology; Applied Anatomy & Kinesiology; and Sectional Anatomy or NEUR 410 Neurosciences. Certain Health Services Administration courses may also be taken as Health Science electives.

## Accelerated 3+3 BS /DPT: Physical Therapy Option

### Degree requirements

Incoming students, 2012/2013 *Bachelor of Science Degree in Health Sciences: 184.0 quarter credits*

#### Accelerated 3+3 BS /DPT – Physical Therapy

The Pathway to Health Professions (Health Sciences) program and the programs in Rehabilitation Sciences of the College of Nursing and Health Professions offer an accelerated dual degree program. Participants can earn both a BS degree in Health Sciences and a Doctor of Physical Therapy (DPT) degree in only six years after graduation from high school. Graduates of this innovative program are able to function in a variety of health care settings and are well-prepared to seek licensure by state board examination. Drexel's DPT program – the new standard in physical therapy education – is the successor to the former MCP Hahnemann University's Master of Physical Therapy (MPT) Program, which was accredited by the American Physical Therapy Association's Commission on Accreditation in Physical Therapy Education (CAPTE) beginning in 1981. The current DPT program is fully accredited by CAPTE.

This is a six-year program in which students earn both a BS with a major in Health Sciences (HSCI) and a Doctor of Physical Therapy (DPT). The

program is available to Health Science majors (HSCI, 4-year, one co-op program) only. Transfer students are not eligible for this program.

For additional information visit the Pathway to Health Professions Program: Accelerated Dual Degree Programs (<http://www.drexel.edu/healthSciences/programs/healthProfessions/acceleratedPrograms/drOfPhysicalTherapy>) page.

#### General Requirements

UNIV NH101	The Drexel Experience	2.0
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#### English Sequence

ENGL 101	Expository Writing and Reading	3.0
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ENGL 102	Persuasive Writing and Reading	3.0
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ENGL 103	Analytical Writing and Reading	3.0
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#### Biology Sequence

BIO 122	Cells and Genetics	4.5
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BIO 124	Evolution & Organismal Diversity	4.5
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BIO 126	Physiology and Ecology	4.5
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BIO 226	Microbiology for Health Professionals	5.0
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#### Chemistry Sequence

CHEM 101	General Chemistry I	3.5
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CHEM 102	General Chemistry II	4.5
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CHEM 103	General Chemistry III	5.0
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#### Mathematics Sequence

MATH 101	Introduction to Analysis I	4.0
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MATH 102	Introduction to Analysis II	4.0
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#### Physics for Life Sciences

PHYS 152	Introductory Physics I	4.0
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PHYS 153	Introductory Physics II	4.0
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#### Computer Science Course

CS 161	Introduction to Computing	3.0
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#### Other Humanities and Social Sciences Courses

COM 310 [WI]	Technical Communication	3.0
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COM 320 [WI]	Science Writing	3.0
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HSAD 210	Health-Care Ethics I	3.0
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HSAD 309	Advanced Health-Care Ethics	3.0
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PSY 101	General Psychology I	3.0
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PSY 120	Developmental Psychology	3.0
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SOC 101	Introduction to Sociology	3.0
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SOC 120	Sociology of the Family	3.0
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<b>Free Electives</b>		4.5
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#### Pathway to Health Professions Courses

##### Anatomy & Physiology Courses

ANAT 101	Anatomy & Physiology I	5.0
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ANAT 102	Anatomy & Physiology II	5.0
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ANAT 103	Anatomy & Physiology III	5.0
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##### Clinical Research Courses

HSCI 310	Introduction to Clinical Research	3.0
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HSCI 313	Clinical Trials Protocols	4.0
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HSCI 315	Current Issues in Clinical Research	3.0
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##### Other Health Sciences Courses

HSCI 201	Health Assessment through the Lifespan	4.0
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HSCI 301	Pharmacology I	3.0
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HSCI 302	Pharmacology II	3.0
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HSCI 337	Genetics and Health	3.0
HSCI 204	Clinical Health Informatics	3.0
STS 345	Statistics for the Health Sciences	4.0
STS 350	Advanced Statistics for Clinical Science	4.0
Two Health Sciences Electives *		7.0
<b>1st Year DPT Courses</b>		
NEUR 507	Neuroscience I	3.0
PTRS 530	Kinesiology I	4.0
PTRS 531	Kinesiology II	3.0
PTRS 532	Human Gross Anatomy I	4.0
PTRS 533	Human Gross Anatomy II	3.5
PTRS 534	Physical Therapy Exam & Intervention I	3.0
PTRS 537	Clinical Correlations I	3.0
PTRS 539	Topics in Pathophysiology I	3.5
PTRS 540	Topics in Pathophysiology II	2.0
PTRS 620	Orthopedic Physical Therapy: Upper Extremity	4.0
PTRS 623	Physical Agents	4.0
PTRS 656	Motor Control and Rehabilitation	2.0
Total Credits		185.0

\* Health Science electives include: Advanced Anatomy I & II; Developmental Anatomy (WI); Physiology; Pathophysiology (WI); Exercise Physiology; Applied Anatomy & Kinesiology; and Sectional Anatomy or NEUR 410 Neurosciences. Certain Health Services Administration courses may also be taken as Health Science electives.

## Accelerated BS/MHS: Physician Assistant Studies Option

### Accelerated Dual Degree (BS/MHS) Program in Physician Assistant Studies

The Pathway to Health Professions (Health Sciences) Program and the Hahnemann Physician Assistant Program of the College of Nursing and Health Professions have created an accelerated dual degree program which offers its students valuable early advising and mentoring from PA faculty to help them plan their studies and meet their goals while they are still undergraduate students. Drexel's highly regarded Hahnemann Physician Assistant Program, which was founded at the former Hahnemann Medical College and Hospital, is the oldest Physician Assistant Program in Pennsylvania and one of the largest PA programs in the country. The Hahnemann PA Program is known for attracting a diverse student body, with more than a quarter of the trainees coming from minority backgrounds and from the medically-underserved areas in which PAs are critically important.

This program allows students to enter the master's-level Physician Assistant program as undergraduates after completing a predetermined number of undergraduate credits. The program is only available to students enrolled in the Pathway to Health Professions major.

For additional information and a sample curriculum, visit the College's Pathway to Health Professions BS/MHS (<http://www.drexel.edu/healthSciences/programs/healthProfessions/acceleratedPrograms/physicianAssistant>) page.

## Facilities

The College of Nursing and Health Professions is located at Drexel University's Center City Hahnemann Campus, adjacent to Tenet Healthcare's Hahnemann University Hospital. The proximity of this major medical center provides a rich environment for students to study toward health professions careers. The Clinical Learning Resource Center provides students with state-of-the-art educational resources (including the Sim-Man Simulated Patient System) to enable them to develop the skills that are needed in their chosen health professions careers. Through the Eleventh Street Corridor Partnership for Community Based Care, the College of Nursing and Health Professions maintains a comprehensive, community-based health center, Eleventh Street Family Health Services Center of Drexel University, where students have unique opportunities to observe health care delivery.

## Health Services Administration

### About the Program

*Bachelor of Science Degree: 180.0 quarter credits*

The Health-Services Administration program provides students with a foundation in general management and economic principles related to health care, as well as an understanding of the administrative structure, operations, and policies of the health-care industry.

Additional options are available for students wishing to complete an accelerated BS degree immediately prior to pursuing graduate study.

The Health Services Administration (HSA) curriculum is a four-year full-time course of study consisting of 180 quarter credits and including one cooperative (co-op) experience comprised of two consecutive quarter terms during the first half or the second half of the junior year. (Non-co-op full-time and part-time options are also available. Transfer students are eligible for the full-time curriculum with or without co-op depending on the number of approved transfer credits.) The curriculum is designed to give students a foundation in general management and economic principles and policies related to the health care, as well as to expose students to the quantitative and qualitative aspects of the health-care industry by means of courses in health care related to policy, law, economics, management, marketing, and informatics. At the same time, the curriculum provides interdisciplinary courses dealing with religious, ethical, psychosocial, political, legal, literary, and historical perspectives regarding health-care practices and populations in need of health care. In addition, the curriculum can prepare students wishing to pursue graduate studies in health services administration, business administration, public health, law, and health communication.

The program also provides a concentration and a minor in HSA and an online certificate in Medical Billing and Coding for Drexel University bachelor's degree-seeking students.

Courses are available online (<http://www.drexel.com/online-degrees/healthcare-degrees/bs-hsa>). A maximum of 90.0 semester credits can be transferred.

### Additional Information

The contact for this program is:

Jennifer M. C. Brown  
Administrative Coordinator  
College of Nursing and Health Professions  
1501 Cherry Street

Philadelphia PA, 19102  
215.571.4236

For more information, visit the Health-Services Administration (<http://www.drexel.edu/healthAdmin/programs/healthServicesAdmin>) page on the College's website.

## Degree Requirements

### English Sequence

ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0

### Biology Courses

BIO 107	Cells, Genetics & Physiology	3.0
BIO 108	Cells, Genetics and Physiology Laboratory	1.0
BIO 109	Biological Diversity, Ecology & Evolution	3.0
BIO 110	Biological Diversity, Ecology and Evolution Laboratory	1.0

### Mathematics Sequence

MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0

### Computing Course

CS 161	Introduction to Computing	3.0
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### Informatics Course

HSCI 204	Clinical Health Informatics	3.0
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### Drexel Experience

UNIV NH101	The Drexel Experience	2.0
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### Health Services Administration Courses

HSAD 210	Health-Care Ethics I	3.0
HSAD 309	Advanced Health-Care Ethics	3.0
HSAD 310	Introduction to Health-Systems Administration	3.0
HSAD 321	Health-Care Human Resources	3.0
HSAD 322	Health-Care Law	3.0
HSAD 330	Financial Management in Health Care	3.0
HSAD 331	Non-profits and Health Care	3.0
HSAD 332	Health-Care Marketing	3.0
HSAD 334	Management of Health Services	3.0
HSAD 335	Health-Care Policy	3.0
HSAD 340	Leadership in Health Services Administration	3.0
9 Health Services Administration (HSAD) Electives *		27.0

### Business Courses

ACCT 115	Financial Accounting Foundations	4.0
ECON 240	Economics of Health Care Systems	4.0
ORGB 300 [WI]	Organizational Behavior	4.0
STAT 201	Introduction to Business Statistics	4.0

### Humanities and Social Sciences Courses

ANTH 101	Introduction to Cultural Diversity	3.0
COM 111	Principles of Communication	3.0
COM 230	Techniques of Speaking	3.0
COM 280	Public Relations Principles and Theory	3.0
PHIL 105	Critical Reasoning	3.0
PSCI 110	American Government I	4.0

PSY 101	General Psychology I	3.0
PSY 120	Developmental Psychology	3.0
PSY 240 [WI]	Abnormal Psychology	3.0
PSY 250 [WI]	Industrial Psychology	3.0
SOC 101	Introduction to Sociology	3.0
SOC 115	Social Problems	3.0
SOC 125	Sociology of Aging	3.0
SOC 215	Industrial Sociology	3.0
SOC 235	Sociology of Health	3.0

### Free Electives

Eight Free Electives	25.0
Total Credits	180.0

\* HSAD 316 Health Care across Cultures, HSAD 325 Issues in Health Care System, and HSAD 320 Managed Health Care are recommended electives.

## Sample Plan of Study

### BS Health Services Administration: 4 YR UG Co-op Concentration / Same as SP/SU cycle

Term 1		Credits
BIO 107	Cells, Genetics & Physiology	3.0
BIO 108	Cells, Genetics and Physiology Laboratory	1.0
ENGL 101	Expository Writing and Reading	3.0
SOC 101	Introduction to Sociology	3.0
UNIV NH101	The Drexel Experience	1.0
	<b>Term Credits</b>	<b>11.0</b>
Term 2		
BIO 109	Biological Diversity, Ecology & Evolution	3.0
BIO 110	Biological Diversity, Ecology and Evolution Laboratory	1.0
ENGL 102	Persuasive Writing and Reading	3.0
HSAD 310	Introduction to Health-Systems Administration	3.0
MATH 101	Introduction to Analysis I	4.0
UNIV NH101	The Drexel Experience	1.0
	<b>Term Credits</b>	<b>15.0</b>
Term 3		
ACCT 115	Financial Accounting Foundations	4.0
ENGL 103	Analytical Writing and Reading	3.0
HSAD 334	Management of Health Services	3.0
MATH 102	Introduction to Analysis II	4.0
	<b>Term Credits</b>	<b>14.0</b>
Term 4		
COM 111	Principles of Communication	3.0
ECON 240	Economics of Health Care Systems	4.0
PSCI 110	American Government I	4.0
PSY 101	General Psychology I	3.0
STAT 201	Introduction to Business Statistics	4.0
	<b>Term Credits</b>	<b>18.0</b>
Term 5		
ANTH 101	Introduction to Cultural Diversity	3.0



**Computing Course**

MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0

**Mathematics Sequence**

CS 161	Introduction to Computing	3.0
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**Informatics Course**

HSCI 204	Clinical Health Informatics	3.0
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**Drexel Experience**

UNIV NH101	The Drexel Experience	2.0
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**Core Health Services Administration (HSAD) Courses**

HSAD 210	Health-Care Ethics I	3.0
HSAD 309	Advanced Health-Care Ethics	3.0
HSAD 310	Introduction to Health-Systems Administration	3.0
HSAD 321	Health-Care Human Resources	3.0
HSAD 322	Health-Care Law	3.0
HSAD 330	Financial Management in Health Care	3.0
HSAD 331	Non-profits and Health Care	3.0
HSAD 332	Health-Care Marketing	3.0
HSAD 334	Management of Health Services	3.0
HSAD 335	Health-Care Policy	3.0
HSAD 340	Leadership in Health Services Administration	3.0

**Nine Health Services Administration (HSAD) Electives** 27.0**Business Courses**

ACCT 115	Financial Accounting Foundations	4.0
ECON 240	Economics of Health Care Systems	4.0
ORGB 300 [WI]	Organizational Behavior	4.0
STAT 201	Introduction to Business Statistics	4.0

**Humanities and Social Sciences Courses**

ANTH 101	Introduction to Cultural Diversity	3.0
COM 111	Principles of Communication	3.0
COM 230	Techniques of Speaking	3.0
COM 280	Public Relations Principles and Theory	3.0
PHIL 105	Critical Reasoning	3.0
PSCI 110	American Government I	4.0
PSY 101	General Psychology I	3.0
PSY 120	Developmental Psychology	3.0
PSY 240 [WI]	Abnormal Psychology	3.0
PSY 250 [WI]	Industrial Psychology	3.0
SOC 101	Introduction to Sociology	3.0
SOC 115	Social Problems	3.0
SOC 125	Sociology of Aging	3.0
SOC 215	Industrial Sociology	3.0
SOC 235	Sociology of Health	3.0

**Free Electives**

Two Free electives		6.0
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**Credits from the Graduate MPH Program**

PBHL 530	Principles of Epidemiology	4.0
PBHL 540	Prevention Principles and Practices	4.0
PBHL 550	Community Based Prevention Practices	4.0
PBHL 640	Environmental Health	4.0

PBHL 650	Public Policy and Advocacy	3.0
<b>Total Credits</b>		<b>180.0</b>

**Sample BS/MPH Plan of Study**

"A" Track, one Fall/Winter Co-Op

(The "B" track follows the same sequence, with the exception of having the Co-Op in Spring/Summer of Junior year. )

**First Year**

<b>Fall</b>		<b>Credits</b>
BIO 107	Cells, Genetics & Physiology	3.0
BIO 108	Cells, Genetics and Physiology Laboratory	1.0
ENGL 101	Expository Writing and Reading	3.0
CS 161	Introduction to Computing	3.0
SOC 101	Introduction to Sociology	3.0
UNIV 101	The Drexel Experience	1.0
<b>Term Credits</b>		<b>14.0</b>

**Winter**

BIO 109	Biological Diversity, Ecology & Evolution	3.0
BIO 110	Biological Diversity, Ecology and Evolution Laboratory	1.0
ENGL 102	Persuasive Writing and Reading	3.0
HSAD 310	Introduction to Health-Systems Administration	3.0
MATH 101	Introduction to Analysis I	4.0
PSY 101	General Psychology I	3.0
UNIV 101	The Drexel Experience	1.0
<b>Term Credits</b>		<b>18.0</b>

**Spring**

ACCT 115	Financial Accounting Foundations	4.0
HSAD 334	Management of Health Services	3.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 102	Introduction to Analysis II	4.0
PSY 120	Developmental Psychology	3.0
<b>Term Credits</b>		<b>17.0</b>

**Summer**

Vacation		
<b>Term Credits</b>		<b>0.0</b>

**Second Year**

<b>Fall</b>		
COM 111	Principles of Communication	3.0
ECON 240	Economics of Health Care Systems	4.0
PSCI 110	American Government I	4.0
SOC 125	Sociology of Aging	3.0
STAT 201	Introduction to Business Statistics	4.0
<b>Term Credits</b>		<b>18.0</b>

**Winter**

ANTH 101	Introduction to Cultural Diversity	3.0
HSCI 204	Clinical Health Informatics	3.0
PSY 240 [WI]	Abnormal Psychology	3.0
SOC 215	Industrial Sociology	3.0
Health Services Administration (HSAD) Electives*		6.0
<b>Term Credits</b>		<b>18.0</b>



<b>Spring</b>		
COM 280	Public Relations Principles and Theory	3.0
HSAD 210	Health-Care Ethics I	3.0
HSAD 330	Financial Management in Health Care	3.0
PHIL 105	Critical Reasoning	3.0
SOC 235	Sociology of Health	3.0
Free Elective		3.0
	<b>Term Credits</b>	<b>18.0</b>
<b>Summer</b>		
COM 230	Techniques of Speaking	3.0
HSAD 321	Health-Care Human Resources	3.0
HSAD 322	Health-Care Law	3.0
HSAD 335	Health-Care Policy	3.0
PSY 250 [WI]	Industrial Psychology	3.0
Free Elective		3.0
	<b>Term Credits</b>	<b>18.0</b>
<b>Third Year</b>		
<b>Fall</b>		
Co-Op		
Health Services Administration (HSAD) Elective		3.0
	<b>Term Credits</b>	<b>3.0</b>
<b>Winter</b>		
Co-Op		
Health Services Administration (HSAD) Elective		3.0
	<b>Term Credits</b>	<b>3.0</b>
<b>Spring</b>		
HSAD 331	Non-profits and Health Care	3.0
HSAD 332	Health-Care Marketing	3.0
ORGB 300 [WI]	Organizational Behavior	4.0
Health Services Administration (HSAD) Electives**		6.0
	<b>Term Credits</b>	<b>16.0</b>
<b>Summer</b>		
HSAD 309	Advanced Health-Care Ethics	3.0
HSAD 340	Leadership in Health Services Administration	3.0
SOC 115	Social Problems	3.0
Health Services Administration (HSAD) Electives***		6.0
Free Elective		3.0
	<b>Term Credits</b>	<b>18.0</b>
<b>Fourth Year</b>		
<b>Fall</b>		
19.0 Credits from the Master of Public Health Program		19.0
	<b>Term Credits</b>	<b>19.0</b>

Total Credit: 180.0

\* HSAD 316 Health Care across Cultures is a recommended elective.  
 \*\* HSAD 325 Issues in Health Care System is a recommended elective.  
 \*\*\* HSAD 320 Managed Health Care Managed Health Care is a recommended elective.

## Minor in Health Services Administration

The minor in health services administration is designed for students interested in preparing for careers in health services administration while pursuing a major in another area. In addition, the curriculum can prepare students wishing to pursue graduate studies in health-services administration, business administration, public health, and law.

### Required Courses

ECON 240	Economics of Health Care Systems	4.0
HSAD 310	Introduction to Health-Systems Administration	3.0
HSAD 321	Health-Care Human Resources	3.0
HSAD 322	Health-Care Law	3.0
HSAD 330	Financial Management in Health Care	3.0
HSAD 335	Health-Care Policy	3.0
HSAD 340	Leadership in Health Services Administration	3.0
HSAD 345	Ethics in Health Care Management	3.0
or HSAD 210	Health-Care Ethics I	
<b>Total Credits</b>		<b>25.0</b>

## Invasive Cardiovascular Technology

### About the Program

*Bachelor of Science Degree: 185.0 quarter credits*

The focus of the Invasive Cardiovascular Technology program is to educate students in the applied science of invasive cardiovascular technology with experience in all aspects of diagnostic and interventional cardiovascular procedures. The BS in Invasive Cardiovascular Technology is a two-year bachelor completion program, designed for radiology students wishing to advance their careers and skills within the field of radiology.

### Mission Statement

The faculty and staff of the Bachelor of Science in Invasive Cardiovascular Technology strive to provide educational opportunities for students to develop knowledge, skills and attitudes conducive to the challenges within the advanced fields of radiology. The over-all mission is to provide men and women with quality training for careers as advanced radiology health care professionals. In addition the Program provides appropriate educational experiences that encompass academic standards that reflect cognitive, physical and behavioral abilities that are necessary in preparing graduates for career success.

The Program provides many opportunities for working in small groups with other healthcare professionals. These group communications and activities give the student chances to share their own experiences and learn from the experiences of others. Within the stimulating college environment, the student will be afforded the opportunity to achieve educational and personal growth goals while developing the technical skills necessary for success as cardiovascular professional.

### Program Goals

The aims of the Bachelor of Science in Invasive Cardiovascular Technology Program are to develop a graduate who is able to:

- Function as a competent entry-level invasive cardiovascular technologist in the cognitive (knowledge), psychomotor (skills) and affective (behavior) learning domains of invasive cardiology.
- Demonstrate proficiency in all aspects of diagnostic and therapeutic procedures.
- Develop an understanding of the biological effects of radiation on humans and utilize the appropriate radiation protection equipment, measures, and recording instruments for specific invasive cardiovascular and vascular procedures.
- Develop the skills and/or the proper handling and processing of digital recording materials.
- Demonstrate knowledge of the composition and appropriate utilization of radiographic contrast media and cardiology medicines.
- Demonstrate a basic knowledge of the pathological process and the common pathology demonstrated by cardiovascular procedures and imaging.

For more information, visit the Radiologic Technology (<http://www.drexel.edu/radtech>) page on the College of Nursing and Health Professions' website.

## Admission Requirements

Acceptance into the program is contingent upon completion of an accredited associate degree program (or equivalent) in medical radiography. Students who have completed a hospital training program in radiology are allowed 50 quarter units of academic credit on the basis of their registry and must complete additional courses to obtain an associate degree before acceptance.

Requirements for admission to the program include:

- Official copy of current ARRT (American Registry of Radiologic Technologist) certification.
- Official copy of Associate Degree completion in Radiologic Technology and/or Science with with Radiologic Technology.
- Official copy of college transcripts.
- Completion of the following courses with a minimum grade of "C"
  - Anatomy & Physiology I, II, III
  - Introduction to Computing
  - Clinical Health Informatics
  - English I, II, III
  - College-level Math
  - Introduction to Psychology
  - Abnormal Psychology
- Overall GPA of 2.50 or higher
- Compliance with the program technical standards and immunization requirements
- Current cardiopulmonary resuscitation (CPR/BLS) skills at the health care provider level.
- Demonstration of competency in English reading comprehension and spoken English fluency (by the TOEFL and TSE if not born in the U.S.)

For more information, contact the College of Nursing and Health Professions (<http://www.drexel.edu/cnhp>) about the program.

## Degree Requirements

<b>Registered Radiology Technologist (ARRT) *</b>		50.0
<b>General Requirements</b>		
<b>3-Course English Sequence</b>		
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
<b>3-Course Sequence in Natural Sciences</b>		
ANAT 101	Anatomy & Physiology I	5.0
ANAT 102	Anatomy & Physiology II	5.0
ANAT 103	Anatomy & Physiology III	5.0
<b>Computer Science Course</b>		
CS 161	Introduction to Computing	3.0
<b>Mathematics Course</b>		
MATH 100	Fundamentals of Mathematics	3.0
<b>2-Course Sequence in Social/Behavior Science</b>		
PSY 101	General Psychology I	3.0
PSY 240 [WI]	Abnormal Psychology	3.0
<b>Informatics Course</b>		
HSCI 204	Clinical Health Informatics	3.0
Total Transfer of A.S. to BS course hours: (89.0 Credits)		
<b>Invasive Cardiovascular (ICVT) Required Courses</b>		
<b>ICVT Core Courses</b>		
ICVT 300	Introduction to Cardiology	3.0
ICVT 302	Cardiovascular System	2.0
ICVT 303	Patient Assessment I	3.0
ICVT 304	Cardiac Laboratory Procedures	3.0
ICVT 305	Coronary Anatomy & Imaging	2.0
ICVT 306	ECG & Special Topics	4.0
ICVT 308	Cardiovascular Angiography	3.0
ICVT 309	Hemodynamic Data I	4.0
ICVT 310	Radiation Safety & Equipment	3.0
ICVT 311	Patient Assessment II	2.0
ICVT 312	Clinical Practicum I	8.0
ICVT 406	Disease & Medical Emergencies	3.0
ICVT 407	Cardiovascular Review I	4.0
ICVT 409	Hemodynamic Data II	3.0
ICVT 410	Cardiovascular Review II	5.0
ICVT 411	Special Topics in Cardiology	2.0
ICVT 412	Clinical Practicum II	8.0
ICVT 422	Clinical Practicum III	10.0
ICVT 432	Clinical Practicum IV	8.0
<b>Additional Required Health Sciences Courses</b>		
CHEM 108	Health Chemistry I	3.0
HSAD 210	Health-Care Ethics I	3.0
HSAD 315	Interdisciplinary Health Services	3.0
HSCI 301	Pharmacology I	3.0
HSCI 302	Pharmacology II	3.0
<b>Total Credits</b>		<b>184.0</b>

\* Acceptance into the program is contingent upon completion of an accredited associate degree program (or equivalent) in medical radiography. Students who have completed a hospital training program in radiology are allowed 50 quarter units of academic credit on the basis of their registry and must complete additional courses to obtain an associate degree before acceptance.

## Sample Plan of Study

### BS Invasive Cardiovascular Technology

Term 1	Credits
CHEM 108 Health Chemistry I	3.0
HSAD 210 Health-Care Ethics I	3.0
HSAD 315 Interdisciplinary Health Services	3.0
ICVT 300 Introduction to Cardiology	3.0
ICVT 302 Cardiovascular System	2.0
<b>Term Credits</b>	<b>14.0</b>
<b>Term 2</b>	
ICVT 303 Patient Assessment I	3.0
ICVT 304 Cardiac Laboratory Procedures	3.0
ICVT 305 Coronary Anatomy & Imaging	2.0
ICVT 306 ECG & Special Topics	4.0
ICVT 310 Radiation Safety & Equipment	3.0
<b>Term Credits</b>	<b>15.0</b>
<b>Term 3</b>	
ICVT 308 Cardiovascular Angiography	3.0
ICVT 309 Hemodynamic Data I	4.0
ICVT 311 Patient Assessment II	2.0
ICVT 312 Clinical Practicum I	8.0
<b>Term Credits</b>	<b>17.0</b>
<b>Term 4</b>	
HSCI 301 Pharmacology I	3.0
ICVT 409 Hemodynamic Data II	3.0
ICVT 411 Special Topics in Cardiology	2.0
ICVT 412 Clinical Practicum II	8.0
<b>Term Credits</b>	<b>16.0</b>
<b>Term 5</b>	
ICVT 406 Disease & Medical Emergencies	3.0
ICVT 407 Cardiovascular Review I	4.0
ICVT 422 Clinical Practicum III	10.0
<b>Term Credits</b>	<b>17.0</b>
<b>Term 6</b>	
HSCI 302 Pharmacology II	3.0
ICVT 410 Cardiovascular Review II	5.0
ICVT 432 Clinical Practicum IV	8.0
<b>Term Credits</b>	<b>16.0</b>

Total Credit: 95.0

## Career Opportunities

Cardiovascular technologists work directly with physicians in hospitals, medical centers, clinics, physician offices, mobile diagnostic units,

sales, training, and education. Employment of invasive cardiovascular technologists is expected to grow through the year 2014. This growth is expected as the population ages, because heart conditions tend to develop in the older population.

Visit the Drexel Steinbright Career Development Center (<http://www.drexel.edu/scdc>) page for more detailed information on post-graduate opportunities.

## Nursing

### About the Program

*Bachelor of Science Degree in Nursing (BSN): 182.0 credits*

The BS in Nursing (BSN) is a full-time, five year program. This program offers three paid, six-month cooperative education experiences. There is also a full-time, four-year option with one, 6 month co-op experience in the 3rd year of study. Students graduate with a bachelor of science in nursing and eligibility to sit for the RN licensure examination.

The BS in nursing degree is approved by the Pennsylvania State Board of Nursing, the National League for Nursing Accreditation Commission, and the American Association of Colleges of Nursing.

Drexel's nursing curriculum is built to respond to the rapidly changing health care system, as well as to student's needs. Graduates of the baccalaureate program will be prepared to:

- Utilize the growing compendium of knowledge and information sources from nursing and other disciplines to learn, teach, heal the sick, and conserve health.
- Contribute to the profession by sharing knowledge and skills with clients, peers, and other professionals in a variety of methods.
- Utilize multiple technologies that access and manage information to guide professional practice.
- Participate in culturally sensitive health promotion activities that contribute to the community's health and wellness.
- Participate in ongoing educational activities related to personal growth, professional practice, and community service.
- Apply knowledge and skills appropriate to their selected areas of career clinical practice.
- Develop personal potential for leadership in a changing health care environment.
- Integrate ethical concepts and principles, The Code of Ethics for Nurses, and professional standards into practice within professional, academic, and community settings.
- Utilize critical-thinking skills to improve the health outcomes of patients, families, and communities across the continuum of care.

A BSN is awarded at the completion of the program.

For more information about the BSN with Co-Op option at Drexel, visit the Nursing Co-Op Program (<http://www.drexel.edu/bsnnursing/studies/BSNcoop>) page.

## Degree Requirements

### General requirements

UNIV NH101	The Drexel Experience	2.0
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### English Sequence

ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0

**Biology/Nutrition courses**

BIO 226	Microbiology for Health Professionals	5.0
NFS 220	Normal & Lifespan Nutrition	4.0
NFS 315	Nutrition in Chronic Disease	4.0

**Chemistry courses**

CHEM 108	Health Chemistry I	3.0
CHEM 103	General Chemistry III	5.0

**Humanities and Social Science courses**

ECON 240	Economics of Health Care Systems	4.0
PSY 101	General Psychology I	3.0
PSY 120	Developmental Psychology	3.0
SOC 101	Introduction to Sociology	3.0
SOC 125	Sociology of Aging *	3.0
PHIL 251	Ethics	3.0
or PHIL 321	Biomedical Ethics	
Humanities elective		3.0
Social science elective		3.0

**Mathematics/Computing/Data Analysis courses**

INFO 204	Nursing Informatics	3.0
MATH 108	Mathematics for Nursing Professionals	3.0
PSY 364	Computer-Assisted Data Analysis I *	3.0

**Anatomy courses**

ANAT 101	Anatomy & Physiology I	5.0
ANAT 102	Anatomy & Physiology II	5.0
ANAT 103	Anatomy & Physiology III	5.0

**Nursing courses**

NURS 110	Essentials of Relationship-Based Professional Nursing Practice	4.0
NURS 112	Relationship-Based Health Assessment & Promotion	5.0
NURS 200	Principles of Nursing Practice	6.0
NURS 300	Comprehensive Adult Nursing I	6.0
NURS 301	Pharmacology for Nursing I	3.0
NURS 303	Women's Health Nursing	6.0
NURS 304	Nursing of Children	6.0
NURS 305	Comprehensive Adult Nursing II	6.0
NURS 306	Pharmacology for Nursing II	3.0
NURS 308	Mental Health Nursing	6.0
NURS 330 [WI]	Research Basis of Nursing	4.0
NURS 337 [WI]	Genetics in Nursing and Health	3.0
NURS 339	Pathophysiology	3.0
NURS 350	Independent Study in Nursing	1.0
NURS 388	Nursing Case Study I	1.0
NURS 400 [WI]	Leadership, Management, and Entrepreneurship in Nursing	3.0
NURS 401	Comprehensive Adult Nursing III	6.0
NURS 403	Community Public Health Nursing	6.0
NURS 450	Contemporary Gerontological Nursing	6.0
NURS 488	Nursing Case Study II	1.0

NURS 489	Synthesis of Nursing Knowledge	4.0
NURS 490	Senior Project in Nursing	3.0
NURS 492	Senior Seminar in Nursing	3.0
Nursing elective **		3.0

**Free Electives**

2 Free electives		6.0
<b>Total Credits</b>		<b>185.0</b>

\* Or acceptable alternative course, as determined by the student's Academic Advisor.

\*\* Nursing electives include either NURS 480, NURS 481, NURS 482, or NURS 336.

## Sample Plans of Study

### BS in Nursing: Co-op Experience Track "A"

		<b>Credits</b>
<b>Term 1</b>		
ANAT 101	Anatomy & Physiology I	5.0
CHEM 108	Health Chemistry I	3.0
ENGL 101	Expository Writing and Reading	3.0
PSY 101	General Psychology I	3.0
UNIV NH101	The Drexel Experience	1.0
<b>Term Credits</b>		<b>15.0</b>
<b>Term 2</b>		
ANAT 102	Anatomy & Physiology II	5.0
CHEM 103	General Chemistry III	5.0
ENGL 102	Persuasive Writing and Reading	3.0
MATH 108	Mathematics for Nursing Professionals	3.0
UNIV NH101	The Drexel Experience	1.0
<b>Term Credits</b>		<b>17.0</b>
<b>Term 3</b>		
ANAT 103	Anatomy & Physiology III	5.0
BIO 226	Microbiology for Health Professionals	5.0
ENGL 103	Analytical Writing and Reading	3.0
NURS 110	Essentials of Relationship-Based Professional Nursing Practice	4.0
<b>Term Credits</b>		<b>17.0</b>
<b>Term 4</b>		
INFO 204	Nursing Informatics	3.0
NURS 112	Relationship-Based Health Assessment & Promotion	5.0
NURS 200	Principles of Nursing Practice	6.0
<b>Term Credits</b>		<b>14.0</b>
<b>Term 5</b>		
NFS 220	Normal & Lifespan Nutrition	4.0
NURS 300	Comprehensive Adult Nursing I	6.0
NURS 301	Pharmacology for Nursing I	3.0
SOC 101	Introduction to Sociology	3.0
<b>Term Credits</b>		<b>16.0</b>
<b>Term 6</b>		
NURS 308	Mental Health Nursing	6.0



NURS 337	Genetics in Nursing and Health [WI]	3.0
NURS 339	Pathophysiology	3.0
NURS 388	Nursing Case Study I	1.0
PSY 120	Developmental Psychology	3.0
<b>Term Credits</b>		<b>16.0</b>
<b>Term 7</b>		
NFS 315	Nutrition in Chronic Disease	4.0
NURS 305	Comprehensive Adult Nursing II	6.0
NURS 306	Pharmacology for Nursing II	3.0
NURS 488	Nursing Case Study II	1.0
SOC 125	Sociology of Aging	3.0
<b>Term Credits</b>		<b>17.0</b>
<b>Term 8</b>		
NURS 303	Women's Health Nursing	6.0
PSY 364	Computer-Assisted Data Analysis I	3.0
PHIL 321	Biomedical Ethics	3.0
or HSAD 210	Health-Care Ethics I	
Social Science Elective		3.0
<b>Term Credits</b>		<b>15.0</b>
<b>Term 9</b>		
NURS 304	Nursing of Children	6.0
NURS 400	Leadership, Management, and Entrepreneurship in Nursing [WI]	3.0
Free Elective		3.0
<b>Term Credits</b>		<b>12.0</b>
<b>Term 10</b>		
ECON 240	Economics of Health Care Systems	4.0
NURS 330	Research Basis of Nursing [WI]	4.0
NURS 401	Comprehensive Adult Nursing III	6.0
Select one of the following:		3.0
NURS 336	Alternative and Complementary Health Interventions	
NURS 501	Dimensions of Human Sexuality in Health & Illness	
NURS 482	Cultural Dimensions of Nursing Care	
NURS 481	Issues & Resolutions in End of Life Care	
<b>Term Credits</b>		<b>17.0</b>
<b>Term 11</b>		
NURS 403	Community Public Health Nursing	6.0
NURS 489	Synthesis of Nursing Knowledge	4.0
Humanities Elective		3.0
<b>Term Credits</b>		<b>13.0</b>
<b>Term 12</b>		
NURS 350	Independent Study in Nursing	1.0
NURS 450	Contemporary Gerontological Nursing	6.0
NURS 492	Senior Seminar in Nursing	3.0
Free Elective		3.0
<b>Term Credits</b>		<b>13.0</b>

Total Credit: 182.0

## BS in Nursing: Co-op Experience Track "B"

		<b>Credits</b>
<b>Term 1</b>		
ANAT 101	Anatomy & Physiology I	5.0
CHEM 108	Health Chemistry I	3.0
ENGL 101	Expository Writing and Reading	3.0
PSY 101	General Psychology I	3.0
UNIV 101	The Drexel Experience	1.0
<b>Term Credits</b>		<b>15.0</b>
<b>Term 2</b>		
ANAT 102	Anatomy & Physiology II	5.0
CHEM 103	General Chemistry III	5.0
ENGL 102	Persuasive Writing and Reading	3.0
MATH 108	Mathematics for Nursing Professionals	3.0
UNIV 101	The Drexel Experience	1.0
<b>Term Credits</b>		<b>17.0</b>
<b>Term 3</b>		
ANAT 103	Anatomy & Physiology III	5.0
BIO 226	Microbiology for Health Professionals	5.0
ENGL 103	Analytical Writing and Reading	3.0
NURS 110	Essentials of Relationship-Based Professional Nursing Practice	4.0
<b>Term Credits</b>		<b>17.0</b>
<b>Term 4</b>		
INFO 204	Nursing Informatics	3.0
NURS 112	Relationship-Based Health Assessment & Promotion	5.0
NURS 200	Principles of Nursing Practice	6.0
<b>Term Credits</b>		<b>14.0</b>
<b>Term 5</b>		
NFS 220	Normal & Lifespan Nutrition	4.0
NURS 300	Comprehensive Adult Nursing I	6.0
NURS 301	Pharmacology for Nursing I	3.0
SOC 101	Introduction to Sociology	3.0
<b>Term Credits</b>		<b>16.0</b>
<b>Term 6</b>		
NURS 308	Mental Health Nursing	6.0
NURS 337	Genetics in Nursing and Health [WI]	3.0
NURS 339	Pathophysiology	3.0
PSY 120	Developmental Psychology	3.0
<b>Term Credits</b>		<b>15.0</b>
<b>Term 7</b>		
NFS 315	Nutrition in Chronic Disease	4.0
NURS 305	Comprehensive Adult Nursing II	6.0
NURS 306	Pharmacology for Nursing II	3.0
NURS 388	Nursing Case Study I	1.0
SOC 125	Sociology of Aging	3.0
<b>Term Credits</b>		<b>17.0</b>
<b>Term 8</b>		
NURS 303	Women's Health Nursing	6.0
PSY 364	Computer-Assisted Data Analysis I	3.0

PHIL 321 or 251	Biomedical Ethics Ethics	3.0
Social Science Elective		3.0
<b>Term Credits</b>		<b>15.0</b>
<b>Term 9</b>		
NURS 304	Nursing of Children	6.0
NURS 400 [WI]	Leadership, Management, and Entrepreneurship in Nursing	3.0
NURS 488	Nursing Case Study II	1.0
Free Elective		3.0
<b>Term Credits</b>		<b>13.0</b>
<b>Term 10</b>		
ECON 240	Economics of Health Care Systems	4.0
NURS 330 [WI]	Research Basis of Nursing	4.0
NURS 401	Comprehensive Adult Nursing III	6.0
Select one of the following:		3.0
NURS 336	Alternative and Complementary Health Interventions	
NURS 501	Dimensions of Human Sexuality in Health & Illness	
NURS 482	Cultural Dimensions of Nursing Care	
NURS 481	Issues & Resolutions in End of Life Care	
<b>Term Credits</b>		<b>17.0</b>
<b>Term 11</b>		
NURS 403	Community Public Health Nursing	6.0
NURS 489	Synthesis of Nursing Knowledge	4.0
Humanities Elective		3.0
<b>Term Credits</b>		<b>13.0</b>
<b>Term 12</b>		
NURS 350	Independent Study in Nursing	1.0
NURS 450	Contemporary Gerontological Nursing	6.0
NURS 492	Senior Seminar in Nursing	3.0
Free Elective		3.0
<b>Term Credits</b>		<b>13.0</b>

Total Credit: 182.0

## About the Co-op

Co-operative education was designed to provide students with real-world experience in a variety of professional settings before graduation. Co-op integrates full-time work experience in the student's field of study throughout the academic program. The College of Nursing and Health Professions co-op program is one of only two of its kind in the nation.

The nursing co-op provides students with 18 months of co-operative education in addition to the traditional clinical educational experiences.

Through co-op, students will have the opportunity to learn the role of the nurse and unlicensed assistive personnel as well as other daily professional, political, and social issues in a work environment. Both before and during co-op students will receive instruction on career management and professional development skills, such as résumé writing, job searches, interviewing skills, maintaining a career portfolio, negotiating salary, and professional. The clinical background students

gain from co-op, coupled with a knowledge of career management, makes the Drexel option a value-added model of nursing education.

## Co-op Descriptions

### First Experience

#### Co-op I: Nursing in Contemporary Health Networks

Students will have co-operative education experiences in managed care settings, pharmaceutical companies, and other non-traditional healthcare work environments where nurses and nursing can effect change. Students will either work under the direction of a professional nurse or another health care professional with a minimum of a baccalaureate degree. Students will not perform any basic nursing skills in this role.

### Second Experience

#### Co-op II: Acute and Chronic Health and Illness

Students on the 4-year track participate in Co-Op II, an education experience in the traditional health care environment that emphasize the delivery of nursing care to adults and adolescents with acute and chronic illnesses. The majority of placements will be in general and specialty medical-surgical units. Students will function in the role as an unlicensed assistive person and their job description will be modeled similarly to unlicensed assistive personnel or nursing externs.

### Third Experience

#### Co-op III: Specialty Nursing Concentration

Students will have co-operative education experiences in a specialty area of their choice which will build upon their previous clinical courses and work experiences. For example, students may elect to specialize in labor and delivery, critical care, or return to work for a pharmaceutical or managed care company. Selection of content area for the Co-op III site will be made by each student in consultation with the student's faculty advisor. Students will be given a suggested reading list and texts to be used for supplemental reading and learning for the specialty co-op area. Students will function in the role as an unlicensed assistive person and their job description will be modeled similarly to the role of unlicensed assistive personnel or nursing externs.

## Accelerated Career Entry (ACE) BSN

### About the Program

Drexel University offers the Accelerated Career Entry Option (<http://www.drexel.edu/bsnnursing/studies/acceleratedCareer>), a one-year intensive nursing program for students who already have bachelor's or graduate degrees. The program is ideal for working adults or college graduates who want to change careers and earn a new degree in one year. This innovative program is geared to students who will benefit from intense education in nursing science rather than the traditional program, which takes three or four years.

Like their counterparts in the traditional baccalaureate nursing program, graduates of the accelerated program emerge with a set of skills that will serve them well in their chosen profession. Our graduates:

- Utilize the growing compendium of knowledge and information sources from nursing and other disciplines to learn, teach, heal the sick, and conserve health.
- Contribute to the profession by sharing knowledge and skills with clients, peers, and other professionals in a variety of methods.
- Utilize multiple technologies that access and manage information to guide professional practice.

- Participate in culturally sensitive health promotion activities that contribute to the community's health and wellness.
- Participate in ongoing educational activities related to personal growth, professional practice, and community service.
- Apply knowledge and skills appropriate to their selected areas of career clinical practice.
- Develop personal potential for leadership in a changing health care environment.
- Integrate ethical concepts and principles, The Code of Ethics for Nurses, and professional standards into practice within professional, academic, and community settings.
- Utilize critical-thinking skills to improve the health outcomes of patients, families, and communities across the continuum of care.

### Admission requirements/Prerequisites

Candidates for admission must be college graduates with a 3.0 overall GPA or a 3.0 GPA in their most-recent 60 semester hours of coursework completed. Admitted students must complete all prerequisites before continuing with the program. Applicants whose native language is not English and/or were born outside of the United States are required to take both the TOEFL (Test of English as a Foreign Language) and the TSE (Test of Spoken English) and achieve a passing score in each.

### Prerequisites

Effective for the academic term 201335 and beyond, the following 8 courses, in semester terms, are prerequisites for the ACE program:

Chemistry with lab	4.0
Developmental Psychology	3.0
Anatomy with lab *	4.0
Physiology with lab *	4.0
Microbiology with lab *	4.0
Human Nutrition	3.0
Statistics	3.0
English	3.0

\* The anatomy, physiology, and microbiology courses must have been taken within five years of beginning the program.

### Degree Requirements

#### Required Courses

NURS 110	Essentials of Relationship-Based Professional Nursing Practice	4.0
NURS 112	Relationship-Based Health Assessment & Promotion	5.0
NURS 200	Principles of Nursing Practice	6.0
NURS 204	Nursing Informatics	3.0
NURS 300	Comprehensive Adult Nursing I	6.0
NURS 301	Pharmacology for Nursing I	3.0
NURS 303	Women's Health Nursing	6.0
NURS 304	Nursing of Children	6.0
NURS 305	Comprehensive Adult Nursing II	6.0
NURS 306	Pharmacology for Nursing II	3.0
NURS 308	Mental Health Nursing	6.0
NURS 330 [WI]	Research Basis of Nursing	4.0

NURS 337 [WI]	Genetics in Nursing and Health	3.0
NURS 339	Pathophysiology	3.0
NURS 401	Comprehensive Adult Nursing III	6.0
NURS 403	Community Public Health Nursing	6.0
NURS 450	Contemporary Gerontological Nursing	6.0
NURS 492	Senior Seminar in Nursing	3.0
Total Credits		85.0

### RN/BSN Completion Program

*Bachelor of Science Degree in Nursing (BSN): 180.0 quarter credits (for Registered Nurses)*

The RN/BSN Completion program is an option for nurses from associate degree and diploma nursing programs looking to complete the bachelor of science degree in nursing.

### About the Program

The Bachelor of Science in Nursing program continues the education of registered nurses to prepare them for the rapidly changing health care environment. Core courses prepare the graduate for population-based cases and the managed care environment. Support courses, electives, and study in an area of the student's choosing build on foundational educational experiences to facilitate the examination of critical issues from a variety of perspectives.

A BSN is awarded at the completion of the program. Qualified students are encouraged to submatriculate in the MSN program (RN/BSN/MSN pathway) while enrolled in the BSN program.

For more information about this completion program at Drexel, visit the RN/BSN Completion Program (<http://www.drexel.edu/bsnnursing/studies/RN-BSN>) page.

### Admission Requirements/Prerequisites

#### Admission Requirements

- RN licensure (provisional acceptance will generally be offered pending successful completion of the NCLEX-RN examination)
- Official college transcripts
- College grade point average of 2.5 or better
- High school degree or equivalent

To be eligible for admission to the bachelor of science in nursing program, students must have completed 60 hours of college prerequisites, as follows, with a grade of C or better. Students may transfer in up to 90 credits. Remaining credits will be evaluated on an individual basis. To graduate, students must have completed 180 credits.

The 60 required hours include:

English (includes one semester of composition)	6.0
Humanities (studio courses not acceptable)	3.0
Anatomy and Physiology	8.0
Microbiology	4.0
Sociology	3.0
Growth and Development	3.0
Nursing	30.0

Graduates of National League for Nursing (<http://www.nln.org>) (NLN)-accredited associate or diploma nursing programs who meet the criteria of the Pennsylvania Nursing Articulation Model will receive credit for 30 semester hours of nursing, which may be applied toward the program entrance requirements.

## Degree Requirements

The College of Nursing and Health Professions faculty uses a variety of teaching and learning methods to facilitate the achievement of a student's personal objectives. Most courses incorporate e-mail and Internet assignments as well as a variety of innovative, active learning assignments. Courses are offered in several stimulating educational formats, including in an online format.

Course sequences are scheduled to allow full-time students to complete the nursing component of the program in three semesters. Students may also complete the program on a part-time basis. Admission can occur in any term.

### First Tier

ENGL 101	Composition and Rhetoric I: Inquiry and Exploratory Research	3.0
ENGL 102	Composition and Rhetoric II: The Craft of Persuasion	3.0
ENGL 103	Composition and Rhetoric III: Thematic Analysis Across Genres	3.0
Humanities		3.0
Sociology		3.0
Psychology		3.0
Growth and Development		3.0
Anatomy		6.0
Physiology		6.0
Microbiology		6.0
Electives		6.0
Nursing (Validated transfer credits)		45.0

### Second Tier

Computer Science or Communications Elective (Public Speaking)		4.0
Statistics		4.0
Economics		4.0
Ethics		4.0
Social Science Elective		4.0
Science Elective		6.0
Advanced Physiology or Pharmacology or Pathophysiology		5.0
Electives		12.0

### Level One Courses

NURS 325 [WI]	Critical Issues in Nursing	3.0
NURS 340	Transformational Leadership	3.0
NURS 346	Health Assessment	6.0
NURS 404	Nursing Informatics for BSN Completion	3.0

### Level Two Courses

NURS 330 [WI]	Research Basis of Nursing	4.0
NURS 337 [WI]	Genetics in Nursing and Health	3.0
NURS 370	Issues in Aging and Longevity	4.0
NURS 375	Nurses Building a Healthy Community	6.0

### Level Three Courses

NURS 460	Global Health & Policy Issues	6.0
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NURS 462	Science, Technology and Health	4.0
NURS 464 or NURS 465	Senior Concentration in Nursing Senior Thesis in Nursing	3.0

\* RN/BSN Online Distance-Learning students will have clinical placements at sites convenient to them.

## Accelerated RN/BSN/MSN

The RN-BSN-MSN Option is a pathway for students who are currently in the Drexel RN to BSN completion program and are interested in continuing their studies to pursue the MSN.

## Admission

For the following tracks, students submit an application to the MSN program in the final term of BSN study:

- MSN in Nursing Education and Faculty Role
- MSN in Clinical Trials
- MSN in Leadership in Health Systems Management
- MSN in Innovation & Intra/Entrepreneurship for Advanced Practice Nursing.

Students interested in either the Nurse Anesthesia program or Nurse Practitioner programs may opt for an accelerated option. The following Nurse Practitioner tracks are available:

- Adult Care Nurse Practitioner Program (online)
- Family Nurse Practitioner Program (on campus)
- Pediatric Nurse Practitioner Program (on campus)
- Adult Psychiatric Mental Health Nurse Practitioner
- Program (online)
- Women's Health Care Nurse Practitioner Program (on-line)

For both the Nurse Anesthesia and the Nurse Practitioner programs, students submit an application when close to completing their BSN degrees. The BSN students must meet the admission requirements for the MSN program. The GRE or MAT exams are required for the Nurse Anesthesia program. Specific admission criteria are outlined on the Admission Requirements RN to BSN to MSN Option (<http://www.drexel.edu/gradnursing/msn/fastTrack/RN-BSN-MSN-Option/admissions>) page.

Students may not register for graduate courses until they are accepted in the program. Additional information is available on the RN-BSN-MSN (<http://drexel.edu/gradnursing/msn/fastTrack/RN-BSN-MSN-Option>) program page.

**Note:** Students in the MSN Adult Acute Care Nurse Practitioner and the Adult Psychiatric Mental Health Nurse Practitioner program may only be admitted from, and must have clinical placements only in one of the following states: Pennsylvania, Delaware, New Jersey, Maryland, Virginia, Washington DC, Connecticut and Rhode Island. Students living on the borders of these regions may be admitted with the understanding that all clinical practica must be taken in the regional states. Students must be licensed in the regional state where clinical practica will occur.

If a student decides not to finish the MSN program after completing two or more MSN courses, the University will award the BSN, provided that the student has completed the required 180 credits. All students who have



applied to and entered the RN/BSN/MSN program work closely with the academic advisor to ensure proper progression.

## Clinical Affiliations

### Clinical Placement Sites

The Undergraduate Nursing Programs have an extensive network of clinical placement sites, including:

11th Street Family Health Services  
 Abington Memorial Hospital  
 Albert Einstein Medical Center  
 Belmont Center  
 Bryn Mawr Hospital  
 Paoli Hospital  
 Camden County Department of Health and Human Services  
 Camden County Health Services Center  
 Cooper University Hospital  
 Chandler Hall  
 Chestnut Hill Hospital  
 CHOP (Children's Hospital of Philadelphia)  
 Christiana Care (Wilmington Hospital)  
 Crozer-Chester Medical Center  
 Deer Meadows  
 Delaware County Memorial Hospital  
 Devereaux Children's Behavioral Health Center  
 Doylestown Hospital  
 Evangelical Manor  
 Fairmount Behavioral Health  
 Fox Chase Cancer Center  
 Frankford Health Care System  
 Friends Hospital  
 Gray Manor  
 Grandview Hospital  
 Girard Medical Center  
 Hahnemann University Hospital  
 Heritage Church  
 Holy Redeemer Hospital and Medical Center  
 Horizon House  
 Hospital of the University of Pennsylvania  
 Temple Children's Hospital  
 Thomas Jefferson University Hospital  
 Kennedy Memorial Hospital  
 Kirkbride Center  
 Landsdale Hospital (Abington Health)  
 Lankenau Hospital  
 Livengrin Foundation, Inc. Lourdes Medical Center  
 Methodist Hospital  
 Moss Rehab - AEMC  
 Mother Bachman Maternity Center  
 Nazareth Hospital  
 NJ Monroe Township Schools  
 NJ Winslow Township Schools  
 NJ Black Horse School District  
 North City Congress (N. Broad Senior Center)  
 Northeastern Hospital  
 Our Brother's Place  
 Our Lady of Lourdes  
 Pennsylvania Hospital  
 Paul's Run  
 Peter Becker Community

Philadelphia School District  
 Presbyterian Medical Center  
 Riddle Memorial Hospital  
 Riverside Care  
 St. Christopher's Hospital for Children  
 St. Francis Hospital  
 St. John's Hospice  
 St. Joseph's Manor  
 Shriners Hospital for Children  
 SPIN, Inc. Temple University Hospital  
 Thomas Jefferson University Hospital  
 Underwood Memorial Hospital  
 Veteran's Haven  
 Village of Arts and Humanities  
 Virtua health (Vorhees, Marlton, Memorial)  
 Watermark

\* RN/BSN Online Distance-Learning students will have clinical placements at sites convenient to them.

## Nutrition and Foods

### About the Program

*Bachelor of Science: 186.5 quarter credits*

The nutrition and foods curriculum emphasizes the relationship between food, food processing, food choices, nutrient metabolism, and medical nutrition therapy to meet health and nutrient needs of individuals. The major prepares students to pursue career opportunities in dietetics and research.

The BS in Nutrition and Foods requires four years of study and the completion of at least 180 credits. The curriculum is designed to provide a sound basis for careers in dietetics and the application of the principles of nutrition and food science to the nutritional care of individuals and groups—such as in school food service or community nutrition—or to provide a sound basis for careers in the food and pharmaceutical industries.

The study of the biochemical nature of nutrients and foods, their interaction with the environment, and their eventual metabolic fate is a strong career path for more research-minded students and provides a unique base for graduate study.

### About the Nutrition Program

*Dietetics* is the practical application of nutrition in the prevention and treatment of disease. Dietetics is an exciting and challenging profession because there are many diseases that are related to nutrition, such as heart disease, high blood pressure, stroke, cancer, diabetes and obesity. The nutrition program at Drexel University is referred to as a Didactic Program in Dietetics (DPD) because we provide classroom training for students who want to become Registered Dietitians. Our Didactic Program in Dietetics is currently granted accreditation by the Commission on Accreditation for Dietetics Education of the American Dietetic Association:

ADA -120  
 S Riverside Plaza  
 Suite 2000  
 Chicago, IL 60606  
 800-877-1600 x5400

www.eatright.org

The American Dietetic Association is the nation's largest organization of food and nutrition professionals, most of whom are Registered Dietitians.

To become a Registered Dietitian, students must complete a:

- Bachelor's degree with course work approved by ADA's Commission on Accreditation for Dietetics Education. Coursework typically includes food and nutrition sciences, chemistry, biochemistry, physiology, microbiology, community nutrition, nutrition education, foodservice systems management and business.
- An accredited, supervised practice program, also called a dietetic internship, at a health-care facility, community agency or foodservice corporation. The internship provides at least 1200 hours of hands-on training.
- Pass a national examination administered by the Commission on Dietetic Registration.

After successfully completing the BS program in Nutrition and all DPD-required courses with a C or better, students will receive a BS degree and also a Verification Statement. The Verification Statement is a certificate documenting completion of an approved/accredited Didactic Program in Dietetics. Students need both a Bachelor's degree and a Verification Statement to start a supervised practice program or internship.

During the senior year, most students will apply for admission into a dietetic internship. Most dietetic internships last 8 to 9 months. To have a good chance of getting accepted into a dietetic internship, students should do the following:

- Maintain a cumulative GPA greater than 3.0 (this includes college courses regardless of where taken).
- Work several hundred hours in dietetics-related work and volunteer experience (especially in the food and nutrition departments at hospitals and nursing homes and in community programs such as WIC).
- Participate in activities that demonstrate leadership.

## Mission, Goals, and Outcome Measures

The mission of the Drexel University Didactic Program in Dietetics is to integrate a foundation in the nutrition sciences with courses in the humanities to provide the knowledge, skills, and professional values (such as ethics) needed for successful entry into dietetic internships, graduate school, and/or dietetics employment. The learning environment is structured to allow students opportunities for experiential learning, including co-operative education, participation in research, and use of current technologies.

### GOAL 1

To provide quality didactic instruction and learning experiences to prepare graduates to be accepted into dietetic internships and graduate schools, and/or work in the field of dietetics.

- Students obtain the knowledge, skills, and professional values specified by CADE.
- On senior program evaluation responses, 90% of the knowledge and skill statements will be selected as competent.
- 50% of juniors will do co-op.
- 80% of seniors will participate in a research project.

- On average, 75% of graduating students will apply to an accredited dietetic internship or graduate school.
- On average, 80% of students who apply to internships, and 80% who apply to graduate school, are accepted.
- Of those graduates seeking employment in nutrition and food-related careers, 80% will be employed within 6 months of program completion.
- On surveys to internship directors, graduate school advisors, and employers, the mean rating of each of 10 learning outcomes will meet or exceed the rating of "3" (satisfactory) or better.
- On surveys to students 1 year after graduation, the mean rating of each of 10 learning outcomes will meet or exceed the rating of "3" (satisfactory) or better.

### GOAL 2

To prepare graduates who are accepted into accredited internship programs to become competent entry-level dietitians.

- Drexel alumni achieve over a 5-year period a pass rate of at least 80% on the RD exam.
- On surveys to employers of internship graduates, the mean rating of each of 10 learning outcomes will meet or exceed the rating of "3" (satisfactory) or better.

### GOAL 3

Through recruitment efforts, encouragement, motivation, and support, faculty and staff will increase the number of students and the diversity of students who enter and complete the didactic program in dietetics.

- The number of students registered in 300 and 400 level NFS courses is 12 or higher.
- At least 10% of juniors and seniors will be from underrepresented groups.
- At least 90% of the students enrolled in the didactic program two years before completion of the DPD will complete the program.
- Senior students indicate on surveys "satisfactory" or better scores with respect to the encouragement and support provided by the program's academic advisement staff.
- Senior students rate the overall quality of 90% of their DPD required courses as satisfactory (3) or better.

For more information, visit the College's Nutrition and Sciences (<http://www.drexel.edu/nutrition>) web page.

## Admission/Graduation Requirements

### Admission Requirements

Drexel takes into consideration a number of criteria when determining admission, including the applicant's application, transcripts, courses in progress, two recommendations, standardized test scores, essay, and special interests (list of extracurricular activities, employment, etc. ). Applicants to the Nutrition and Foods program must have completed four years of high school mathematics (algebra I and II, geometry, and trigonometry) and two years of a laboratory science (biology, chemistry, or physics). To be considered as a transfer student, candidates should have completed a minimum of 24 college credits. Drexel operates on a rolling admission basis, which means that students will be notified about the admission decision as soon as possible after their files are complete.

Visit the Admissions (<http://www.drexel.edu/em>) web site for more information and to apply online.

## Graduation Requirements

To receive a BS in Nutrition and Foods, students in the program must complete a Plan of Study of all required courses and enough elective courses to total at least 180.0 credits. An overall GPA of 2.0 or higher for all coursework undertaken at Drexel University must be earned to receive a BS A "C" or better is necessary in all courses required by the Didactic Program in Nutrition in order to receive a Verification Statement.

For the current academic calendar, visit <http://www.drexel.edu/src/calendar.asp>.

## Degree Requirements

### Required Courses

#### Communications

COM 230	Techniques of Speaking	3.0
COM 345	Intercultural Communication	3.0
or COM 310	Technical Communication	
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0

#### Physical and Biological Sciences

BIO 122	Cells and Genetics	4.5
BIO 124	Evolution & Organismal Diversity	4.5
BIO 126	Physiology and Ecology	4.5
BIO 153	Anatomy and Physiology I	4.0
BIO 154	Anatomy and Physiology II	4.0
BIO 155	Anatomy and Physiology III	4.0
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
CHEM 103	General Chemistry III	5.0
NFS 215	Nutritional Chemistry	3.0
NFS 217	Nutrient Quality & Composition	1.0

#### Humanities and Social Sciences

ANTH 101	Introduction to Cultural Diversity	3.0
or SOC 101	Introduction to Sociology	
PSY 101	General Psychology I	3.0
PSY 320 [WI]	Educational Psychology	3.0
or PSY 230	Psychology of Learning	
PSY 342	Counseling Psychology	3.0

#### Management and Statistics

HRM 120	Principles of Food-Service Management	3.0
HRMT 323	Principles of Human Resource Administration	4.0
ORGB 300 [WI]	Organizational Behavior	4.0
PSY 364	Computer-Assisted Data Analysis I	3.0

#### Foods, Food Safety, and Food Production

CULA 115	Culinary Fundamentals	3.0
FDSC 154	Foods: Composition, Interaction and Formulation	4.0
FDSC 270	Microbial Food Safety and Sanitation	4.0
FDSC 350	Experimental Foods: Product Development	3.0
HRM 215	Commercial Food Production	4.0

#### Nutrition and Food Sciences

NFS 203	Nutrition II: Nutrition in the Lifecycle	4.0
NFS 230	Intermediate Nutrition	4.0
NFS 265	Professional Issues in Nutrition and Foods	3.0
NFS 345	Foods and Nutrition of World Cultures	3.0
NFS 365 [WI]	Nutrition Laboratory: Food and Nutrient Analysis	4.0
NFS 370	Foodservice Systems Management	4.0
NFS 391	Community Nutrition	4.0
NFS 415	Advanced Nutrition I: Macronutrition	4.0
NFS 416	Advanced Nutrition II: Micronutrients	4.0
NFS 431	Nutrition Counseling	4.0
NFS 443	Medical Nutrition Therapy I	3.0
NFS 444	Medical Nutrition Therapy II	3.0
NFS 445	Medical Nutrition Therapy III	3.0
NFS 475	Advanced Seminar in the Dietetics Profession	3.0
NFS 494	Senior Project I	2.0
NFS 495	Senior Project II	2.0
NFS 496	Senior Project III	2.0

#### Mathematics

MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0

#### Additional Requirements

UNIV NH101	The Drexel Experience	3.0
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#### Free Electives

Total Credits		186.5
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## Sample Plan of Study

### BS Nutrition and Foods: 4 YR UG Co-op Concentration

(See below for option without co-op)

Term 1		Credits
BIO 124	Evolution & Organismal Diversity	4.5
CHEM 101	General Chemistry I	3.5
ENGL 101	Expository Writing and Reading	3.0
MATH 101	Introduction to Analysis I	4.0
UNIV NH101	The Drexel Experience	1.0
	<b>Term Credits</b>	<b>16.0</b>
Term 2		
BIO 122	Cells and Genetics	4.5
CHEM 102	General Chemistry II	4.5
ENGL 102	Persuasive Writing and Reading	3.0
MATH 102	Introduction to Analysis II	4.0
UNIV NH101	The Drexel Experience	2.0
	<b>Term Credits</b>	<b>18.0</b>
Term 3		
BIO 126	Physiology and Ecology	4.5
CHEM 103	General Chemistry III	5.0
ENGL 103	Analytical Writing and Reading	3.0

FDSC 154	Foods: Composition, Interaction and Formulation	4.0	NFS 444	Medical Nutrition Therapy II	3.0
	<b>Term Credits</b>	<b>16.5</b>	NFS 495	Senior Project II	2.0
<b>Term 4</b>			Free Electives		6.0
BIO 153	Anatomy and Physiology I	4.0		<b>Term Credits</b>	<b>15.0</b>
HRM 120	Principles of Food-Service Management	3.0	<b>Term 12</b>		
NFS 215	Nutritional Chemistry	3.0	NFS 345	Foods and Nutrition of World Cultures	3.0
NFS 217	Nutrient Quality & Composition	1.0	NFS 370	Foodservice Systems Management	4.0
NFS 230	Intermediate Nutrition	4.0	NFS 445	Medical Nutrition Therapy III	3.0
	<b>Term Credits</b>	<b>15.0</b>	NFS 496	Senior Project III	2.0
<b>Term 5</b>			Free Elective		3.0
BIO 154	Anatomy and Physiology II	4.0		<b>Term Credits</b>	<b>15.0</b>
CULA 115	Culinary Fundamentals	3.0	<hr/>		
FDSC 270	Microbial Food Safety and Sanitation	4.0	Total Credit: 186.5		
NFS 203	Nutrition II: Nutrition in the Lifecycle	4.0	<b>BS Nutrition and Foods: 4 YR UG No Co-op Concentration</b>		
	<b>Term Credits</b>	<b>15.0</b>	<b>Term 1</b>		<b>Credits</b>
<b>Term 6</b>			BIO 124	Evolution & Organismal Diversity	4.5
BIO 155	Anatomy and Physiology III	4.0	CHEM 101	General Chemistry I	3.5
HRM 215	Commercial Food Production	4.0	ENGL 101	Expository Writing and Reading	3.0
NFS 265	Professional Issues in Nutrition and Foods	3.0	MATH 101	Introduction to Analysis I	4.0
PSY 101	General Psychology I	3.0	UNIV NH101	The Drexel Experience	1.0
Free Elective		3.0		<b>Term Credits</b>	<b>16.0</b>
	<b>Term Credits</b>	<b>17.0</b>	<b>Term 2</b>		
<b>Term 7</b>			BIO 122	Cells and Genetics	4.5
COM 230	Techniques of Speaking	3.0	CHEM 102	General Chemistry II	4.5
ORGB 300	Organizational Behavior	4.0	ENGL 102	Persuasive Writing and Reading	3.0
[WI]			MATH 102	Introduction to Analysis II	4.0
SOC 101	Introduction to Sociology	3.0	UNIV NH101	The Drexel Experience	2.0
or ANTH 101	Introduction to Cultural Diversity			<b>Term Credits</b>	<b>18.0</b>
Free Elective		3.0	<b>Term 3</b>		
	<b>Term Credits</b>	<b>13.0</b>	BIO 126	Physiology and Ecology	4.5
<b>Term 8</b>			CHEM 103	General Chemistry III	5.0
FDSC 350	Experimental Foods: Product Development	3.0	ENGL 103	Analytical Writing and Reading	3.0
NFS 415	Advanced Nutrition I: Macronutrition	4.0	FDSC 154	Foods: Composition, Interaction and Formulation	4.0
PSY 320 [WI]	Educational Psychology	3.0		<b>Term Credits</b>	<b>16.5</b>
PSY 364	Computer-Assisted Data Analysis I	3.0	<b>Term 4</b>		
COM 345	Intercultural Communication	3.0	BIO 153	Anatomy and Physiology I	4.0
or 310 [WI]	Technical Communication		HRM 120	Principles of Food-Service Management	3.0
	<b>Term Credits</b>	<b>16.0</b>	NFS 215	Nutritional Chemistry	3.0
<b>Term 9</b>			NFS 217	Nutrient Quality & Composition	1.0
HRMT 323	Principles of Human Resource Administration	4.0	NFS 230	Intermediate Nutrition	4.0
NFS 365 [WI]	Nutrition Laboratory: Food and Nutrient Analysis	4.0		<b>Term Credits</b>	<b>15.0</b>
NFS 416	Advanced Nutrition II: Micronutrients	4.0	<b>Term 5</b>		
PSY 342	Counseling Psychology	3.0	BIO 154	Anatomy and Physiology II	4.0
	<b>Term Credits</b>	<b>15.0</b>	CULA 115	Culinary Fundamentals	3.0
<b>Term 10</b>			FDSC 270	Microbial Food Safety and Sanitation	4.0
NFS 391	Community Nutrition	4.0	NFS 203	Nutrition II: Nutrition in the Lifecycle	4.0
NFS 443	Medical Nutrition Therapy I	3.0		<b>Term Credits</b>	<b>15.0</b>
NFS 475	Advanced Seminar in the Dietetics Profession	3.0	<b>Term 6</b>		
NFS 494	Senior Project I	2.0	BIO 155	Anatomy and Physiology III	4.0
Free Elective		3.0	HRM 215	Commercial Food Production	4.0
	<b>Term Credits</b>	<b>15.0</b>	NFS 265	Professional Issues in Nutrition and Foods	3.0
<b>Term 11</b>					
NFS 431	Nutrition Counseling	4.0			



PSY 101	General Psychology I	3.0
Free Elective		3.0
<b>Term Credits</b>		<b>17.0</b>
<b>Term 7</b>		
FDSC 350	Experimental Foods: Product Development	3.0
NFS 415	Advanced Nutrition I: Macronutrition	4.0
PSY 320 [WI]	Educational Psychology	3.0
PSY 364	Computer-Assisted Data Analysis I	3.0
<b>Term Credits</b>		<b>13.0</b>
<b>Term 8</b>		
COM 230	Techniques of Speaking	3.0
NFS 365 [WI]	Nutrition Laboratory: Food and Nutrient Analysis	4.0
NFS 416	Advanced Nutrition II: Micronutrients	4.0
ORGB 300 [WI]	Organizational Behavior	4.0
<b>Term Credits</b>		<b>15.0</b>
<b>Term 9</b>		
HRMT 323	Principles of Human Resource Administration	4.0
PSY 342	Counseling Psychology	3.0
ANTH 101 or SOC 101	Introduction to Cultural Diversity or Introduction to Sociology	3.0
COM 310 [WI] or 345	Technical Communication or Intercultural Communication	3.0
Free Elective		3.0
<b>Term Credits</b>		<b>16.0</b>
<b>Term 10</b>		
NFS 391	Community Nutrition	4.0
NFS 443	Medical Nutrition Therapy I	3.0
NFS 475	Advanced Seminar in the Dietetics Profession	3.0
NFS 494	Senior Project I	2.0
Free Elective		3.0
<b>Term Credits</b>		<b>15.0</b>
<b>Term 11</b>		
NFS 431	Nutrition Counseling	4.0
NFS 444	Medical Nutrition Therapy II	3.0
NFS 495	Senior Project II	2.0
Free Electives		6.0
<b>Term Credits</b>		<b>15.0</b>
<b>Term 12</b>		
NFS 345	Foods and Nutrition of World Cultures	3.0
NFS 370	Foodservice Systems Management	4.0
NFS 445	Medical Nutrition Therapy III	3.0
NFS 496	Senior Project III	2.0
Free Elective		3.0
<b>Term Credits</b>		<b>15.0</b>
Total Credit: 186.5		

## Minor in Nutrition and Foods

The minor in nutrition is designed for students interested in enhancing their major with an application in human nutrition. The nutrition minor should be especially attractive to students in the premedical, biological,

and behavioral neurological sciences, as it provides a background for enhanced employment and post-baccalaureate study opportunities in areas closely allied to their basic disciplines.

The minor consists of 25 credits. Interested students should consult with a nutrition and food science faculty member to schedule courses appropriate for their background and goals.

### Required courses

NFS 200 or NFS 230	Nutrition I: Principles of Nutrition or Intermediate Nutrition	4.0
NFS 203	Nutrition II: Nutrition in the Lifecycle	4.0
NFS 415	Advanced Nutrition I: Macronutrition	4.0
NFS 416	Advanced Nutrition II: Micronutrients	4.0
Select three of the following:		9.0
FDSC 154	Foods: Composition, Interaction and Formulation	
NFS 345	Foods and Nutrition of World Cultures	
NFS 391	Community Nutrition	
NFS 480	Special Studies in Nutrition and Food	
Total Credits		25.0

## Career Opportunities

Possible career opportunities in dietetics include the following:

- *Clinical Dietitians* are specialists in food nutrition services in hospitals, outpatient clinics, and private practices. They assess patient nutrition, develop dietary plans, provide patient counseling, and monitor patient progress.
- *Community Dietitians* work in public health agencies, health and fitness clubs, and day care centers. They counsel people on food choices and direct programs in nutrition awareness and disease prevention.
- *Management Dietitians* specialize in food service systems or clinical management. They work in hospitals, nursing homes, school food service, cafeterias, and restaurants. They manage personnel, plan and conduct employee training programs, design food systems, and plan budgets.
- *Business Dietitians* work in the food industry in product development and marketing, public relations, food styling, and menu design.
- *Consultant Dietitians* are independent business people who work as consultants to nursing homes, sports team, and other clients.

## Facilities

The Nutrition Center of Drexel University (Stratton Hall, room 123) is a counseling center and laboratory with:

- videotaping capabilities for monitoring and evaluating students while providing nutrition counseling services.
- a computer laboratory for nutrient data analysis and desktop publishing of nutrition educational materials.
- an assessment room equipped for completion of physical nutritional assessment.
- a demonstration kitchen for group classes such as recipe modification.

Food preparation laboratories feature state-of-the-art equipment for both experimental and quantity food production.

Bioscience teaching laboratories are available with networked computers and advanced digital image analysis capabilities. Both teaching and research laboratories contain a range of equipment including microscopes, centrifuges, chromatographs, spectrophotometers, scintillation counters, culture chambers, and densitometers.

## Radiologic Technology

### About the Program

*Associate of Science Degree: 104.0 quarter credits*

The major in radiologic technology prepares students to perform actual diagnostic X-ray examinations vital to the diagnosis and treatment of patients.

The Associate in Science Degree Radiology is the branch of medicine that uses various forms of radiation, such as X-rays, to provide information for the prevention, diagnosis, and treatment of disease. Radiologic technologists aid physicians by performing radiologic examinations necessary to diagnose conditions and treat patients.

### Mission Statement

The mission of the radiologic technology program is to provide:

- a progressive academic and clinical educational environment for qualified students to prepare them as competent and compassionate radiologic health care providers;
- the knowledge and skills needed to meet and/or exceed minimum entry level requirements to perform radiologic technology.

### Program Goals

- Recruit and select qualified individuals with potential for success
- Students/graduates will demonstrate the knowledge and skills of a clinically competent radiographer
- Students/graduates will demonstrate effective communication, critical thinking and problem solving skills
- Students/graduates will recognize the significance of professional growth and development.

### Accreditation

The program is accredited by:

The Joint Review Committee on Education in Radiologic Technology (JRCERT)  
20 North Wacker Drive  
Suite 2850  
Chicago, IL. 60606  
312-704-5300

### Options for Study

The program was established to prepare specialist trained in the art and science of medical imaging who participate in the care of other human beings and do so as competent, sensitive, caring individuals who carry out their charge in such a way so as to maintain the dignity of human life. The program is committed to providing a quality educational opportunity that prepares individuals to be competent for entry-level staff radiographic employment. A quality and comprehensive curriculum is maintained

through competent faculty who utilize quality facilities. Instruction begins with classroom exercises, leading to laboratory experiences and clinical applications.

The Radiology Technology Program of the College of Nursing and Health Professions is a 21-month program leading to an Associate of Science (AS) Degree.

For more information, visit the Radiologic Technology (<http://www.drexel.edu/radtech>) page on the College of Nursing and Health Professions web site.

### Degree Requirements

#### Degree Requirements

UNIV NH101	The Drexel Experience	2.0
	Humanities Elective	3.0

#### English Sequence

ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0

#### Mathematics and Computer Science Courses

MATH 100	Fundamentals of Mathematics	3.0
CS 161	Introduction to Computing	3.0

#### Psychology Requirements

PSY 101	General Psychology I	3.0
PSY 240 [WI]	Abnormal Psychology	3.0

#### Anatomy & Physiology Courses

ANAT 101	Anatomy & Physiology I	5.0
ANAT 102	Anatomy & Physiology II	5.0
ANAT 103	Anatomy & Physiology III	5.0
ANAT 202	Sectional Anatomy	3.0

#### Health Science Course

HSCI 204	Clinical Health Informatics	3.0
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#### Radiologic Technology Courses

RADI 100	Introduction to Radiologic Technology	2.0
RADI 102	Introduction to Radiologic Principles II	1.0
RADI 132	Radiologic Physics I	3.0
RADI 133	Radiologic Physics II	3.0
RADI 150	Principles of Radiographic Exposure I	2.0
RADI 153	Principles of Radiographic Exposure II	2.0
RADI 154	Radiographic Exposure III	2.0
RADI 201	Medical Imaging	2.0
RADI 203	Principles of Exposure IV	2.0
RADI 204	Principles of Radiation Protection	2.0
RADI 215	Radiation Biology	3.0
RADI 221	Quality Assurance	2.0
RADI 222	Pathology	3.0
RADI 223	Registry Review	1.0
RADI 164	Radiologic Procedures I	3.0
RADI 165	Radiographic Procedures II	3.0
RADI 166	Radiographic Procedures III	3.0
RADI 200	Radiologic Procedures IV	3.0
RADI 202	Radiologic Procedures V	1.0

RADI 193	Methods of Patient Care I	2.0
RADI 194	Methods of Patient Care II	1.0
RADI 195	Clinical Practicum I	1.0
RADI 196	Clinical Practicum II	1.0
RADI 197	Clinical Practicum III	1.0
RADI 198	Clinical Practicum IV	2.0
RADI 291	Clinical Practicum V	2.0
RADI 292	Clinical Practicum VI	2.0
RADI 293	Clinical Practicum VII	2.0
Total Credits		104.0

## Sample Plan of Study (AS)

### AS Radiologic Technology Program

		Credits
<b>Term 1</b>		
MATH 100	Fundamentals of Mathematics	3.0
RADI 100	Introduction to Radiologic Technology	2.0
RADI 150	Principles of Radiographic Exposure I	2.0
RADI 164	Radiologic Procedures I	3.0
RADI 193	Methods of Patient Care I	2.0
RADI 195	Clinical Practicum I	1.0
UNIV NH101	The Drexel Experience	1.0
<b>Term Credits</b>		<b>14.0</b>
<b>Term 2</b>		
ANAT 101	Anatomy & Physiology I	5.0
HSCI 204	Clinical Health Informatics	3.0
RADI 102	Introduction to Radiologic Principles II	1.0
RADI 153	Principles of Radiographic Exposure II	2.0
RADI 165	Radiographic Procedures II	3.0
RADI 194	Methods of Patient Care II	1.0
UNIV NH101	The Drexel Experience	1.0
<b>Term Credits</b>		<b>16.0</b>
<b>Term 3</b>		
ANAT 102	Anatomy & Physiology II	5.0
ENGL 101	Expository Writing and Reading	3.0
RADI 132	Radiologic Physics I	3.0
RADI 154	Radiographic Exposure III	2.0
RADI 166	Radiographic Procedures III	3.0
RADI 197	Clinical Practicum III	1.0
<b>Term Credits</b>		<b>17.0</b>
<b>Term 4</b>		
ANAT 103	Anatomy & Physiology III	5.0
ENGL 102	Persuasive Writing and Reading	3.0
RADI 133	Radiologic Physics II	3.0
RADI 196	Clinical Practicum II	1.0
RADI 198	Clinical Practicum IV	2.0
<b>Term Credits</b>		<b>14.0</b>
<b>Term 5</b>		
ANAT 202	Sectional Anatomy	3.0
ENGL 103	Analytical Writing and Reading	3.0
RADI 200	Radiologic Procedures IV	3.0

RADI 203	Principles of Exposure IV	2.0
RADI 215	Radiation Biology	3.0
RADI 291	Clinical Practicum V	2.0
<b>Term Credits</b>		<b>16.0</b>
<b>Term 6</b>		
PSY 101	General Psychology I	3.0
RADI 201	Medical Imaging	2.0
RADI 202	Radiologic Procedures V	1.0
RADI 204	Principles of Radiation Protection	2.0
RADI 222	Pathology	3.0
RADI 292	Clinical Practicum VI	2.0
<b>Term Credits</b>		<b>13.0</b>
<b>Term 7</b>		
CS 161	Introduction to Computing	3.0
PSY 240 [WI]	Abnormal Psychology	3.0
RADI 221	Quality Assurance	2.0
RADI 223	Registry Review	1.0
RADI 293	Clinical Practicum VII	2.0
Humanities Elective		3.0
<b>Term Credits</b>		<b>14.0</b>
Total Credit: 104.0		

## Clinical Rotations

Students in the Radiologic Technology program must attend all of the clinical rotation sites. Clinical practicum times can vary from 8:30 a.m. to 8:30 p.m. depending on the quarter. Every Radiology student participates in an evening trauma rotation within their summer quarter (1:00 p.m. to 8:30 p.m.).

Hahnemann University Hospital (<http://www.hahnemannhospital.com/CWContent/hahnemannhospital>)  
Broad and Vine Streets  
Philadelphia, PA 19102

Mercy Fitzgerald Hospital (<http://www.mercyhealth.org/fitzgerald>)  
1500 Lansdowne Avenue  
Darby, PA 19023

Premier Llanerch Medical Center  
Premier Orthopedic & Sports Medicine (<http://www.premierortho.com>)  
510 W Darby Road  
Havertown, PA 19083

## Career Opportunities

Upon completion of the program the graduates may continue their education in the area of radiation therapy, nuclear medicine, ultrasound, MRI, CAT scan, interventional radiation, mammography, or education and management.

Employment opportunities abound in hospitals, doctors' offices, mobile radiography, agencies, sales, application specialists and research.

Visit the Drexel Steinbright Career Development Center (<http://www.drexel.edu/scdc>) page for more detailed information on post-graduate opportunities.

## Minor in Addictions Counseling

The minor in addictions counseling is designed to provide students with an understanding of current best-practice approaches in counseling interventions aimed at assisting people in recovery from substance use disorders. This minor appeals to students in a wide range of Drexel majors, including Psychology, Criminal Justice, Health Services Administration, Sociology, Pathways to Health Professions, Education, General Humanities and Social Science, Nutrition and Foods, as well as other fields of study.

### Academic Requirements

The minor requirements includes 15.0 credits in five required courses and 9.0 credits in three courses selected from a list of ten electives. Students may elect to begin coursework in this minor at any point in their undergraduate education. It is strongly suggested that students pursuing this minor consult with faculty in the Behavioral Health Counseling program for advice in selecting electives that will best meet their goals in this minor.

#### Required Courses

BACS 220	Counseling Theory and Practice	3.0
BACS 234	Introduction to Addictive Disorders	3.0
BACS 304	Cognitive and Behavioral Counseling I	3.0
BACS 310	Recovery and Relapse Prevention	3.0
BACS 367	Advanced Counseling Intervention	3.0
Select three of the following:		9.0
BACS 232	Ethics and Professional Responsibility	
BACS 255	Multicultural Counseling	
BACS 301	Group Counseling I	
BACS 312	Case Management Methods	
BACS 325	Psychopharmacology for Counselors	
BACS 368	Addictions Counseling with Special Populations	
BACS 370	Problem Gambling Interventions	
BACS 401	Assessment and Treatment Planning	
BACS 412	Group Counseling II	
BACS 414	Co-Occurring Disorders	
Total Credits		24.0

## Minor in Psychiatric Rehabilitation

24.0 quarter credits

The minor in psychiatric rehabilitation is designed to provide students with an understanding of clinical competencies in implementing evidence-based rehabilitation services to people with serious mental illness. This minor appeals to students in a wide range of Drexel majors, including Psychology, Criminal Justice, Health Services Administration, Sociology, Pathways to Health Professions, Education, General Humanities and Social Science, Nutrition and Foods, as well as other fields of study.

### Academic Requirements

The minor requires completion of 24 credits, comprised of 15 credits in five required courses and 9 credits in three courses selected from a list of twelve electives. Students may elect to begin coursework in this minor at any point in their undergraduate education. It is strongly suggested that students pursuing this minor consult with faculty in the Behavioral Health

Counseling program for advice in selecting electives that will best meet their goals in this minor.

#### Required Courses

BACS 220	Counseling Theory and Practice	3.0
BACS 236	Psychiatric Rehabilitation Principles and Practices	3.0
BACS 320	Crisis and Brief Intervention	3.0
BACS 325	Psychopharmacology for Counselors	3.0
BACS 420	Psychiatric Rehabilitation Competencies	3.0
Select three of the following:		9.0
BACS 200	Foundation of Behavioral Health Care	
BACS 230	Genetics and Mental Health	
BACS 234	Introduction to Addictive Disorders	
BACS 255	Multicultural Counseling	
BACS 301	Group Counseling I	
BACS 304	Cognitive and Behavioral Counseling I	
BACS 401	Assessment and Treatment Planning	
BACS 404	Cognitive and Behavioral Counseling II	
BACS 405	Family-Focused Interventions	
BACS 411	Forensic Behavior Health Service	
BACS 412	Group Counseling II	
BACS 414	Co-Occurring Disorders	
Total Credits		24.0

## Certificate in Medical Billing and Coding

This online certificate program is designed for those who want to begin medical billing and coding careers or prepare for certification exams in these areas. Students will learn principles of medical coding related to the three main coding manuals: CPT, ICD-9-CM, and HCPCS. The curriculum covers principles of medical billing and coding for in-patient and outpatient hospitals.

#### Required Courses

MBC 201	Medical Billing I	3.0
MBC 202	Medical Billing II	3.0
MBC 301	Physician-Based Medical Coding I	3.0
MBC 302	Physician-Based Medical Coding II	3.0
MBC 303	Hospital-Based Medical Coding I	3.0
MBC 304	Hospital-Based Medical Coding II	3.0
If a student has placed out of any of the above courses, he or she can substitute any of the following courses (provided that the prerequisites are met):		
MBC 101	Medical Terminology for Billers and Coders	
MBC 250	Medical Billing Software	
MBC 350	Physician-Based Chart Auditing	
MBC 360	Hospital-Based Case Studies	
Total Credits		18.0

### Additional Information

The contact for this program is Marsela Furxhiu-Laze.

215-762.4779

mf35@drexel.edu



# About the College of Nursing and Health Professions: Graduate

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The College of Nursing and Health Professions offers a wide range of graduate programs. Many programs offer flexible scheduling, making it possible for students to continue their education with night and weekend courses. Others are web-based programs available online.

## Majors

- Couple and Family Therapy (PhD) (p. 33)
- Family Therapy (MFT) (p. 34)
- Creative Arts in Therapy (MA, PhD) (p. 35)
  - Art Therapy (p. 35)
  - Dance/Movement Therapy (p. 36)
  - Music Therapy (p. 37)
- Nurse Anesthesia (MSN) (p. 41)
- Nursing Science (DrNP) (p. 42)
- Nursing (MSN)
  - Adult Acute Care Nurse Practitioner (p. 48)
  - Clinical Nurse Leader (p. 48)
  - Clinical Trials Research (p. 49)
  - Family Nurse Practitioner (p. 50)
  - Nursing Education and Faculty Role (p. 50)
  - Nursing Innovation and Intra/Entrepreneurship (p. 51)
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  - MSN-Bridge Program (p. 52)
  - Women's Health Nurse Practitioner (p. 54)
  - Pediatric Primary Care Nurse Practitioner (p. 53)
  - Psychiatric Mental Health Nurse Practitioner (p. 53)
- Human Nutrition (MS) (p. 39)
- Doctor of Physical Therapy (DPT) (p. 43)
- Rehabilitation Sciences (MHS, PhD) (p. 45)
- Physician Assistant (MHS)
  - MHS with PA Certificate Program (p. 56)
  - Post-Professional Master's Program (p. 58)

## Certificates

- Art Therapy (p. 60)
- Complementary and Integrative Therapies (p. 60)
- Couple and Family Therapy (p. 60)
- Dance/Movement Therapy (p. 61)
- Forensic Trends and Issues in Contemporary Healthcare (p. 62)
- Hand and Upper Quarter Rehabilitation (p. 62)
- Holistic Hospice and Palliative Care (p. 63)
- Integrative Addiction Therapies (p. 63)
- Medical Family Therapy (p. 63)
- Music Therapy (p. 63)
- Nurse Anesthesia (p. 64)
- Nursing Concentration Certificates

- Clinical Trials Research (p. 66)
- Nursing Education and Faculty Role (p. 66)
- Nursing Innovation and Intra/Entrepreneurship (p. 66)
- Nursing Leadership and Health Systems Management (p. 67)
- Adult Acute Care Nurse Practitioner (p. 67)
- Adult Psychiatric Mental Health Practitioner (p. 67)
- Family Nurse Practitioner (p. 68)
- Pediatric Primary Care Nurse Practitioner (p. 68)
- Pediatric Rehabilitation (p. 65)

## About the College

As the practice of medicine has become more complex with the advent of technology and new drug therapies, so has the provision of health services. An increasingly diverse, aging U.S. population experiencing higher rates of chronic illness is demanding more service and culturally competent care. While technology improvements help provide the means to deliver safer, high-quality care, our society is facing shortages in health professionals such as nurses, mental health workers, nurse anesthetists, physician assistants, and rehabilitation science professionals. The demand for these and other skilled professionals continues to increase and is expected to remain steady well into the 21st century. There is no more vibrant a place to prepare for these kinds of meaningful, rewarding careers than at Drexel University's College of Nursing and Health Professions (<http://www.drexel.edu/cnhp>). The College offers associate's, bachelor's, master's, and doctoral degrees in more than a dozen health care fields.

Just as the health profession disciplines have come of age, so has the College of Nursing and Health Professions. Founded in 1969 as the College of Allied Health Professions with just three degree programs and a faculty of five, the college has undergone a remarkable evolution. Today it serves more than 3,000 students with a broad array of contemporary program offerings. Along the way, it has earned widespread recognition and accreditation for the education of health professionals.

## Mission and Approach

The College believes that the health care needs of today and tomorrow can best be met by professionals who have expertise in their own fields and a concurrent understanding of other health disciplines. In addition to providing a broad-based education that balances academic learning with clinical training, the University promotes collaboration among students in our College of Nursing and Health Professions, our School of Public Health, and the College of Medicine, which draws from the rich traditions of predecessors Hahnemann University and the Medical College of Pennsylvania.

Teamwork is as important in academics as it is in health care. The College of Nursing and Health Professions' dedicated and knowledgeable faculty members work closely with students, providing a supportive and creative learning environment. Graduates from the College possess a wide range of experiences and the knowledge, compassion, and lifelong learning skills needed to become accomplished health care professionals.

The student body, which is diverse in age and culture, reflects Drexel University's commitment to provide qualified students with an opportunity for advanced education. Drexel welcomes nontraditional applicants and especially encourages applications from underrepresented minorities and those interested in practicing in underserved areas.

Many of Drexel's College of Nursing and Health Professions programs offer flexible scheduling, making it possible for students to continue their education through part-time, online, night, or weekend study.

## Accreditation

Nursing programs are accredited by the CCNE (Commission on Collegiate Nursing Education), and the PA State Board of Nursing.

The Couple and Family Therapy MFT degree and Post-Master's Certificates are accredited by COAMFTE (Commission on Accreditation of Marriage and Family Therapy Education).

The Creative Arts in Therapy MA degrees in Dance/Movement Therapy, Music Therapy, and Art Therapy are approved by the ADTA (American Dance Therapy Association), the AMTA (American Music Therapy Association), and the AATA (American Art Therapy Association), respectively.

The Didactic Program in Nutrition is accredited by ACEND (Accreditation Council for Education in Nutrition and Dietetics).

The Health Services Administration program is certified by AUPHA (Association of University Programs in Health Administration).

The Nurse Anesthesia program is accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs.

The Professional Physical Therapy (DPT) program is accredited by CAPTE (Commission on Accreditation in Physical Therapy Education).

The Physician Assistant program is accredited by ARC-PA (Accreditation Review Commission on Education for the Physician Assistant).

## Couple and Family Therapy (PhD)

### About the Program

*Doctor of Philosophy: 82.0 quarter credits*

The PhD Program in Couple and Family Therapy (CFT) prepares educators, researchers, and practitioners. Students are trained to advance the knowledge base of couple and family therapy through education, research, and clinical services.

Graduates of the Couple and Family Therapy PhD program will serve as faculty in graduate programs of couple and family therapy, psychology, social work, or medical schools, and as clinicians in mental health agencies or private practice.

The PhD Program in Couple and Family Therapy is rooted in systems theory and therapy. Emphasis is on specialized training in couple and family therapy theory and technique. Students are expected to demonstrate critical and analytical thinking with respect to the broad areas of systems theory and therapy, and to articulate their own theoretical approach to couple and family therapy. The program is committed to training students to be aware of and sensitive to such contextual issues as race, class, gender, spirituality, and sexual orientation as well as person of the therapist.

For additional information about the PhD in Couple and Family Therapy, visit the program's Couple and Family Therapy (<http://www.drexel.edu/familytherapy>) web site.

## Degree Requirements

Students are required to complete the standard curriculum in couple and family therapy before pursuing the doctoral curriculum. The standard curriculum is offered in the COAMFTE-accredited Master of Family Therapy program at the University. A minimum of 82.0 post-master's quarter hours are required for the PhD program.

The curriculum includes study in the following areas:

- Theory and research in couple and family therapy
- Research methodology, including statistics, research design, and computer applications
- Specialized instruction in couple and family therapy
- Domestic violence, school-based settings, diverse family structures, and forensic family therapy
- Supervised clinical experience
- Supervision of supervision

### Required Courses

#### Clinical Knowledge

CFTP 724	Multicultural Approach to Couple and Family Therapy	4.0
CFTP 725	Trauma and Families	4.0
CFTP 730	Gender and Sexual Orientation	4.0
CFTP 741	Religion, Spirituality and Couple and Family Therapy	4.0

#### Individual Development and Family Relations

CFTP 735	Family Healthcare Policy	4.0
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#### Clinical Supervision

CFTP 734	Supervision in Couple and Family Therapy	4.0
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#### Research

CFTP 713	Couple and Family Therapy Research and Practice Literature	4.0
CFTP 715	Quantitative Methods	4.0
CFTP 719	Qualitative Methods	4.0
CFTP 732	Advanced Quantitative Research Design	4.0
or CFTP 733	Advanced Qualitative Research Design	
RSCH 519	Introduction to Biostatistics	3.0

#### Professional Development

CFTP 714	Professional Development Seminar I	2.0
CFTP 718	Professional Development Seminar II	2.0
CFTP 722	Professional Development Seminar III	2.0
CFTP 726	Professional Development Seminar IV	2.0
CFTP 731	Professional Development Seminar V	2.0
CFTP 736	Professional Development Seminar VI	2.0

#### Internship

CFTP 801	Couple and Family Therapy Internship *	12.0
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#### Dissertation

CFTP 802	Couple and Family Therapy Dissertation *	12.0
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#### Additional Course (Elective)

		3.0
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Students select an additional elective course (Students may choose to go outside of the program to meet this requirement, provided each course is at least 4.0 credits and at the doctoral level of sophistication or they may select one of the following courses.)

CFTP 751	Special Topics in Couple and Family Therapy	
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CFTP 752	Independent Study in Couple and Family Therapy
Total Credits	82.0

\* This course is repeated for credit to meet minimum requirements, and can be repeated for credit up to five times.

### Clinical Training

Students must be actively engaged in clinical practice throughout the program. Before graduating from the Doctoral program, all students must have completed 1,000 hours of direct client contact equivalent to that which is offered in a COAMFTE accredited program. Any student who can document that her/his previous supervised clinical practice is comparable to that which would be received in a COAMFTE accredited program may petition the program to waive some or all of the required 1,000 direct client contact hours.

### Internship

All students are required to do an internship. Internship supervisors must be clearly senior in experience to the student intern. The purpose of the internship is to provide students with a supervised full-time clinical, research, academic or administrative experience of at least nine months duration. Clinical and alternate internships must emphasize relationally focused practice and research. For the clinical internship it is to insure that students meet the 1,000 direct client contact hour standard of COAMFTE. If a student has already accumulated 1,000 direct client contact hours, and/or is already licensed as an MFT and/or a clinical member of AAMFT in good standing, s/he may replace the clinical internship with a supervised research, academic, or administrative internship. The internship follows completion of a majority of all coursework. Students with up to two remaining courses are eligible to begin the internship. Students with three to four remaining courses must petition the program for approval to begin the internship.

Students should contact the Couple and Family Therapy Department ([http://www.drexel.edu/cnhp/couple\\_family/phd\\_about.asp](http://www.drexel.edu/cnhp/couple_family/phd_about.asp)) for additional information about the qualifying exam and the dissertation.

## Master of Family Therapy

### About the Program

*Master of Family Therapy (MFT): 91.0 quarter credits*

The Master of Family Therapy Program prepares couple and family therapy practitioners. It is a two-year degree program accredited by the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE).

The program prepares students for the profession of couple and family therapy through academic and clinical training. It exposes students to broad areas of theory and practice and provides an intensive, supervised clinical experience. The program emphasizes the interdependence of individual experience and the relational context, extending from family of origin (including traditional and nontraditional families) to the global community. The program is committed to training students to be aware of and sensitive to cultural diversity. In addition, the person of the therapist, including the student's own culture, is a major aspect of the clinical training.

For more information, visit Drexel's College of Nursing and Health Professions Couple and Family Therapy (<http://www.drexel.edu/familyTherapy>) web page.

## Degree Requirements

The MFT curriculum assists students in integrating theory and practice. Issues of race, class, gender, sexual orientation, and ethnicity are addressed throughout the program. Students are fully trained to assume clinical practice in couple and family therapy and are prepared for associate membership in the AAMFT.

### Required Courses

#### Theoretical Foundations

CFTP 500	Introduction to Systems Theory	4.0
CFTP 501	Introduction to Family Therapy	4.0
CFTP 503	Historical and Sociocultural Influences	4.0

#### Clinical Practice

CFTP 505	Bowen Theory	4.0
CFTP 506	Contextual Theory and Therapy	4.0
CFTP 507	Collaborative Approaches	4.0
CFTP 508	Structural Family Therapy	4.0
CFTP 509	Couples Therapy	4.0
CFTP 510	Sex Therapy	4.0
CFTP 511	Object Relations Theory	4.0
CFTP 512	Behavioral Models of Family Therapy	4.0
CFTP 517	Addictions in The Family	4.0
CFTP 518	Medical Family Therapy	4.0
CFTP 519	Family Violence	4.0
CFTP 537	Nosology & Couple and Family Therapy Practice	4.0

#### Individual Development and Family Relations

CFTP 520	Family Life Cycle	4.0
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#### Professional Identity and Ethics

CFTP 522	Legal and Ethical Implications in Couple and Family Therapy Practice	4.0
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#### Research

CFTP 525	Research in Couple and Family Therapy	4.0
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#### Additional Learning

CFTP 526	Person of the Therapist Experience I	2.0
CFTP 527	Person of the Therapist Experience II	2.0
CFTP 528	Person of the Therapist Experience III	2.0

#### Electives

CFTP 515	Introduction to Psychopharmacology	
CFTP 521	Human Development	
CFTP 529	Family Policy	

#### Practicum

CFTP 530	Practicum I	2.0
CFTP 531	Practicum II	2.0
CFTP 532	Practicum III	2.0
CFTP 533	Practicum IV	1.0
CFTP 534	Practicum V	2.0
CFTP 535	Practicum VI	2.0
CFTP 536	Practicum VII	2.0

Total Credits		91.0
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### Clinical Practicum Experience

All interns must complete a continuous 12-month calendar year at one practicum site prior to graduation. Interns will be expected to spend

16-20 hours per week working at the approved program practicum site. Scheduling of specific times will be negotiated by the intern and the on-site supervisor. The practicum schedule must not conflict with class schedule.

Clinical practicum sites are located primarily in Philadelphia, Delaware, and New Jersey. Settings include schools, forensic family therapy treatment programs, juvenile justice treatment systems, community health centers, family court, mental health agencies, outpatient psychiatry, and substance abuse facilities.

For additional information, students should contact the Couple and Family Therapy Department ([http://www.drexel.edu/cnhp/couple\\_family/mft\\_about.asp](http://www.drexel.edu/cnhp/couple_family/mft_about.asp)).

## Creative Arts in Therapy

### About the Program

*Master Arts: 90.0 quarter credits*

*Doctor of Philosophy: 66.0 quarter credits*

The programs in Creative Arts Therapies are based on specialized didactic and clinical education in Art, Dance/Movement or Music Therapy. Admission criteria are specific to each of the three areas of concentration

The curriculum contains core courses for all students in areas related to mental health sciences, creative arts in therapy theory and specialized courses for students of each arts therapy modality. The Department of Creative Arts Therapies offers both an MA degree with specialization as well as a PhD degree in Creative Arts in Therapy.

The philosophy of the Creative Arts in Therapy program integrates knowledge of art psychotherapy with current theoretical and practical approaches to assessment and treatment in such fields as mental health, medicine, and education. Didactic, clinical, and supervisory aspects of the program are balanced and integrated to provide a foundation of theoretical knowledge and practical application. The program is unique in that faculty members are art therapists and mental health professionals with an interest in the arts who can help students integrate the principles of art therapy with current mental health theory and practice.

Admission criteria are specific to each of the three areas of concentration. For information about how to apply to the MA program, visit the Drexel University Admissions [MA in Creative Arts Therapies](#) page.

### Master of Arts in Creative Arts: Art Therapy Specialization

The curriculum includes classroom and clinical field placements that occur simultaneously throughout the two-year education. Through experiences in the classroom students in the art therapy program study the theory behind the creative and complex interaction of the therapist, the patient/client, and the art process. They then apply what they learn in a clinical practicum and internship setting while under the supervision of a qualified art therapist. Individual and group supervision assists the student in acquiring an integrated understanding of art therapy theory and practice. Through this process the students learn the importance of the synthesis of these elements in the art therapy treatment milieu and therapeutic relationship.

For additional information about the program, visit the College of Nursing and Health Professions' Art Therapy (<http://www.drexel.edu/artsTherapies/programs/artTherapy>) web site.

#### Core Courses

ARTS 501	Introduction to Creative Arts Therapy I	2.0
ARTS 502	Introduction to Creative Arts Therapy II	2.0
ARTS 503	Introduction to Creative Arts Therapy III	2.0
ARTS 504	Human Psychological Development I	2.0
ARTS 509	Human Psychological Development II	2.0
ARTS 505	Clinical Diagnosis of Psychopathology I	2.0
ARTS 513	Clinical Diagnosis of Psychopathology II	2.0
ARTS 506	Professional Orientation and Ethics I	1.0
ARTS 606	Professional Orientation and Ethics II	3.0
ARTS 507	Group Dynamics and Therapy	2.0
ARTS 508	Introduction to Behavioral Research I	4.0
ARTS 601	Theories of Psychotherapy I	2.0
ARTS 605	Theories of Psychotherapy II	2.0
ARTS 602	Multicultural Perspectives in Therapy I	2.0
ARTS 603	Clinical Appraisal and Assessment I	2.0
ARTS 607	Clinical Appraisal and Assessment II	2.0

#### Art Therapy Track Courses

ARTS 531	Art Therapy Assessment and Treatment for Adults I	2.0
ARTS 532	Art Therapy Assessment and Treatment for Adults II	2.0
ARTS 533	Art Therapy Assessment and Treatment for Children I	2.0
ARTS 534	Art Therapy Assessment and Treatment for Children II	2.0
ARTS 535	Art Therapy Theory and Symbolism I	2.0
ARTS 536	Art Therapy Theory and Symbolism II	2.0
ARTS 537	Art Therapy Group Supervision I	2.0
ARTS 538	Art Therapy Group Supervision II	2.0
ARTS 539	Art Therapy Group Supervision III	2.0
ARTS 540	Art Therapy Literature and Research	2.0
ARTS 541	Jungian Psychology for Art Therapists	2.0
ARTS 542	Group Dynamics: Art Therapy	2.0
ARTS 631	Art Therapy Workshop	2.0
ARTS 632	Advanced Art Therapy Process and Practice I	2.0
ARTS 633	Advanced Art Therapy Process and Practice II	2.0
ARTS 634	Art Therapy Family Assessment	2.0
ARTS 635	Multicultural Perspectives in Art Therapy	2.0
ARTS 636	Studio Art for Art Therapists	2.0
ARTS 637	Advanced Art Therapy Group Supervision I	1.0
ARTS 638	Advanced Art Therapy Group Supervision II	1.0
ARTS 639	Advanced Art Therapy Group Supervision III	1.0

#### Art Therapy Electives

Select one of the following:

ARTS 640	Medical Art Therapy	
ARTS 641	Forensic Art Therapy	
ARTS 642	Art Therapy in an Education Setting	
ARTS 643	Trauma and Art Therapy	

#### Clinical Education Courses



ARTS 510	Clinical Practicum I: Observation	1.0
ARTS 511	Clinical Practicum II	1.0
ARTS 512	Clinical Practicum III	1.0
ARTS 610	Clinical Internship I	3.0
ARTS 611	Clinical Internship II	3.0
ARTS 612	Clinical Internship III	3.0
<b>Thesis</b>		
ARTS 621	Thesis I	1.0
ARTS 622	Thesis II	1.0
ARTS 623	Thesis III	1.0
ARTS 624	Thesis IV	1.0
<b>Additional Electives</b>		
ARTS 625	For Thesis Only	
ARTS 699	Independent Study in Creative Arts Therapy	
Total Credits		90.0

\* ARTS 604 Career Counseling can be taken as an elective.

## Master of Arts in Creative Arts: Dance/Movement Therapy Specialization

Dance/movement therapy is a body/mind-integrated approach to psychotherapy that uses expressive dance and movement processes to encourage the integration of emotional, cognitive, social, and physical functioning. Dance/movement therapy emphasizes the non-verbal realm of movement, touch, rhythm, and spatial interactions, as well as the congruence and connections between verbal and nonverbal modes of expression.

Students build a strong foundation of theoretical knowledge and clinical application in dance/movement therapy (DMT). The program teaches and balances the art of DMT with the science that supports it. Using diagnostic knowledge, developmental and systems theories, and observational skills based in Laban Movement Analysis, our students learn to assess client functioning and formulate treatment goals. Using their expertise in the dance/movement modality and interactive, improvisational processes, students learn to address the patient's needs in both group and individual therapy formats. They may design creative group tasks for fostering interaction and cohesion, or to guide an individual through a personal conflict or challenge.

For additional information about the program, visit the College of Nursing and Health Professions' Dance/Movement Therapy (<http://www.drexel.edu/artsTherapies/programs/danceMovementTherapy>) web site.

### Core Courses

ARTS 501	Introduction to Creative Arts Therapy I	2.0
ARTS 502	Introduction to Creative Arts Therapy II	2.0
ARTS 503	Introduction to Creative Arts Therapy III	2.0
ARTS 504	Human Psychological Development I	2.0
ARTS 509	Human Psychological Development II	2.0
ARTS 505	Clinical Diagnosis of Psychopathology I	2.0
ARTS 513	Clinical Diagnosis of Psychopathology II	2.0
ARTS 506	Professional Orientation and Ethics I	1.0
ARTS 606	Professional Orientation and Ethics II	3.0
ARTS 507	Group Dynamics and Therapy	2.0

ARTS 508	Introduction to Behavioral Research I	4.0
ARTS 601	Theories of Psychotherapy I	2.0
ARTS 605	Theories of Psychotherapy II	2.0
ARTS 602	Multicultural Perspectives in Therapy I	2.0
ARTS 603	Clinical Appraisal and Assessment I	2.0
ARTS 607	Clinical Appraisal and Assessment II	2.0
<b>Dance/Movement Therapy Track Courses</b>		
ARTS 552	Therapy Relationship Skills I	2.0
ARTS 553	Therapy Relationship Skills II	2.0
ARTS 554	Movement Observation I	2.0
ARTS 555	Laban Movement Analysis Lab	0.0
ARTS 556	Movement Observation II	2.0
ARTS 557	Dance/Movement Therapy Theory and Practice - Children I	2.0
ARTS 558	Dance/Movement Therapy Theory and Practice - Children II	2.0
ARTS 559	Introduction to Dance/Movement Therapy History and Literature	1.0
ARTS 563	Movement Perspectives in Human Development	2.0
ARTS 564	Group Dynamics and Therapy II: Dance/Movement Therapy	2.0
ARTS 654	Dance/Movement Therapy Theory and Practice III: Adults	2.0
ARTS 655	Multicultural Perspectives in Therapy II: Dance/Movement Therapy	2.0
ARTS 656	Mental Health Applications of Movement Analysis I	2.0
ARTS 657	Mental Health Applications of Movement Analysis II	2.0
ARTS 661	Family Dance/Movement Therapy: A Systems Approach	2.0
ARTS 662	Advanced Group Dance/Movement Therapy Skills I	2.0
ARTS 663	Advanced Group Dance/Movement Therapy Skills II	2.0
NEUR 534	Neuroscience	3.0
<b>Clinical Education Courses</b>		
ARTS 560	Dance/Movement Therapy Group Supervision I	1.0
ARTS 561	Dance/Movement Therapy Group Supervision II	1.0
ARTS 562	Dance/Movement Therapy Group Supervision III	1.0
ARTS 658	Dance/Movement Therapy Advanced Group Supervision I	1.0
ARTS 659	Dance/Movement Therapy Advanced Group Supervision II	1.0
ARTS 660	Dance/Movement Therapy Advanced Group Supervision III	1.0
ARTS 510	Clinical Practicum I: Observation	1.0
ARTS 511	Clinical Practicum II	1.0
ARTS 512	Clinical Practicum III	1.0
ARTS 610	Clinical Internship I	3.0
ARTS 611	Clinical Internship II	3.0
ARTS 612	Clinical Internship III	3.0
<b>Thesis</b>		
ARTS 621	Thesis I	1.0
ARTS 622	Thesis II	1.0
ARTS 623	Thesis III	1.0
ARTS 624	Thesis IV	1.0

**Electives**

Select one of the following:

ARTS 551	Introduction to Anatomy and Kinesiology for Dance/Movement Therapy
ARTS 651	Medical Dance/Movement Therapy
ARTS 652	The Kestenberg Movement Profile

**Additional Electives**

As needed, in consultation with the program director students can select the following electives:

ARTS 625	For Thesis Only
ARTS 699	Independent Study in Creative Arts Therapy

Total Credits 90.0

## Master of Arts in Creative Arts: Music Therapy Specialization

The two-year music therapy program is designed to help students develop advanced music therapy clinical skills in an academic health center setting. The program is the only music therapy training model housed in an academic health center. It is unique in that faculty members include mental health and medical professionals who assist students in integrating music therapy with current developmental, mental health, and medical practices.

Didactic and clinical aspects are balanced to provide a foundation of theoretical knowledge and practical application. The curriculum integrates knowledge of music therapy with current theoretical approaches to assessment and treatment. Experiential core and music therapy modality courses are designed to help students develop the use of the self within the music therapy relationship.

For additional information about program, visit the College of Nursing and Health Professions' Music Therapy (<http://www.drexel.edu/artsTherapies/programs/musicTherapy>) web site.

**Core Courses**

ARTS 501	Introduction to Creative Arts Therapy I	2.0
ARTS 502	Introduction to Creative Arts Therapy II	2.0
ARTS 503	Introduction to Creative Arts Therapy III	2.0
ARTS 504	Human Psychological Development I	2.0
ARTS 509	Human Psychological Development II	2.0
ARTS 505	Clinical Diagnosis of Psychopathology I	2.0
ARTS 513	Clinical Diagnosis of Psychopathology II	2.0
ARTS 506	Professional Orientation and Ethics I	1.0
ARTS 606	Professional Orientation and Ethics II	3.0
ARTS 507	Group Dynamics and Therapy	2.0
ARTS 508	Introduction to Behavioral Research I	4.0
ARTS 601	Theories of Psychotherapy I	2.0
ARTS 605	Theories of Psychotherapy II	2.0
ARTS 602	Multicultural Perspectives in Therapy I	2.0
ARTS 603	Clinical Appraisal and Assessment I	2.0
ARTS 607	Clinical Appraisal and Assessment II	2.0

**Music Therapy Track Courses**

ARTS 570	Clinical Musicianship I	2.0
ARTS 571	Clinical Musicianship II	2.0

ARTS 572	Clinical Musicianship III	2.0
ARTS 573	Clinical Musical Improvisation I	2.0
ARTS 574	Clinical Musical Improvisation II	2.0
ARTS 575	Theories in Music Therapy I	2.0
ARTS 577	Music Therapy Skills I	2.0
ARTS 578	Music Therapy Skills II: Child Skills	2.0
ARTS 579	Music Therapy Skills III: Technological Applications	2.0
ARTS 580	Psychology of Music	2.0
ARTS 670	Advanced Music Therapy Skills I	2.0
ARTS 671	Advanced Music Therapy Skills II	2.0
ARTS 672	Multicultural Perspectives in Music Therapy	2.0
ARTS 677	Advanced Music Therapy Skills III - Group	2.0
ARTS 678	Clinical Internship Laboratory: Musical Analysis	1.0
NEUR 534	Neuroscience	3.0

**Clinical Education Courses**

ARTS 510	Clinical Practicum I: Observation	1.0
ARTS 511	Clinical Practicum II	1.0
ARTS 512	Clinical Practicum III	1.0
ARTS 581	Music Therapy Group Supervision I	1.0
ARTS 582	Music Therapy Group Supervision II	1.0
ARTS 583	Music Therapy Group Supervision III	1.0
ARTS 610	Clinical Internship I	3.0
ARTS 611	Clinical Internship II	3.0
ARTS 612	Clinical Internship III	3.0
ARTS 673	Advanced Music Therapy Group Supervision I	1.0
ARTS 674	Advanced Music Therapy Group Supervision II	1.0
ARTS 675	Advanced Music Therapy Group Supervision III	1.0

**Thesis**

ARTS 621	Thesis I	1.0
ARTS 622	Thesis II	1.0
ARTS 623	Thesis III	1.0
ARTS 624	Thesis IV	1.0

**Additional Electives**

As needed, in consultation with the program director students can select the following electives:

ARTS 625	For Thesis Only	0.0
ARTS 699	Independent Study in Creative Arts Therapy	1.0-4.0

Total Credits 90.0

## PhD in Creative Arts in Therapy

The PhD in Creative Arts in Therapy is a research degree for art therapists, dance/ movement therapists, and music therapists who are interested in focusing their careers on scholarly pursuits and academic leadership in their specific discipline. The primary mission of the program is the cultivation of scholars and academic leaders for the purpose of generating and disseminating substantive, quality research that ultimately contributes to the bodies of knowledge, best clinical practices, and the efficacy of the arts therapies fields.

The mission of the PhD in Creative Arts in Therapy is to cultivate stewards of the professions who can preserve the traditions of the disciplines, promote scholarly and clinical advancement, and contribute to the legitimization of the fields.

In pursuit of the program mission, the innovative curriculum includes four interactive learning modules that comprise a three-year full-time degree program:

- Interdisciplinary module
- Research module
- Self/other artistic module
- Practicum module

The learning culture, curriculum, and pedagogy of the PhD in Creative Arts in Therapy are the primary components contributing to the comprehensiveness of this advanced research degree. The learning culture is one of creativity, innovation, initiative and support. The curriculum and pedagogy emphasize the interaction between intellectual, emotional, inter-subjective and artistic learning for the purpose of generating knowledge in the arts therapies.

The learning culture, curriculum and pedagogy are elaborated in the following constructs:

- A learning culture that supports the exploration and integration of intellectual, emotional, artistic, and self/other knowledge as parallel to the psychotherapeutic and creative processes.
- An educational philosophy, curricular structure, and innovative pedagogy which supports dynamic and creative inquiry into interdisciplinary and discipline specific bodies of knowledge.
- A comprehensive approach to traditional and innovative research methods that best supports the ontological, epistemological, theoretical, and applied practice in the arts therapies.
- The integration of theoretical, experiential, and pragmatic knowledge.
- A dialectic between didactic, intrinsic, and practical learning experiences.
- The cultivation of aptitudes and competencies in intellectual, subjective, intersubjective and artistic inquiry for each student.

For additional information about the program, visit the College of Nursing and Health Professions' PhD in Creative Arts Therapy (<http://www.drexel.edu/artsTherapies/programs/PhDRsearch>) web site.

### General Requirements

The following general requirements must be satisfied in order to complete the PhD in Creative Arts in Therapy:

- 66.0 quarter credits of required courses
- Comprehensive examination
- Candidacy/Qualifying exam (administered after the completion of one year or 45 quarter credits)
- Approval of dissertation proposal
- Practicum in one of the following: teaching, research, clinical supervision or advanced clinical practice
- Completion of dissertation
- Final oral exam/oral defense of dissertation

The required courses in the curriculum are organized into four essential learning modules: 1) interdisciplinary; 2) research; 3) self/other and artistic knowledge; and 4) practical application. These courses comprise the key components of the doctoral program, along with the dissertation.

### Interdisciplinary Seminars

ARTS 703	Interdisciplinary Seminar I	3.0
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ARTS 704	Interdisciplinary Seminar II	3.0
ARTS 705	Interdisciplinary Seminar III	3.0
ARTS 706	Interdisciplinary Seminar IV	3.0

### Research Courses

ARTS 712	Research I: Philosophy & Theory	3.0
ARTS 713	Research Methods II: Quantitative Methods	3.0
ARTS 714	Research Methods III: Qualitative Methods	3.0
ARTS 715	Innovative and Emergent Research Methods	3.0

### Research Specialization

Select one of the following: 3.0

ARTS 732	Quantitative Research Methods II	
ARTS 733	Qualitative Research Methods II	
ARTS 734	Innovative and Emergent Research Methods II	

### Self/Other Artistic Knowledge Studio Labs

ARTS 716	Studio Based Artistic Inquiry I	3.0
ARTS 717	Studio Based Artistic Inquiry II	3.0
ARTS 718	Studio Based Artistic Inquiry III	3.0
ARTS 719	Studio Based Artistic Inquiry IV	3.0

### Practical Application Courses

Practica in either research, teaching, clinical supervision, or advanced clinical practice.

ARTS 808	Practicum I	3.0
ARTS 809	Practicum II	3.0
ARTS 810	Practicum III	3.0

### Dissertation Courses \*

Select 9 credits from the following variable credit courses: 9.0

ARTS 804	Dissertation Research I	
ARTS 805	Dissertation Research II	
ARTS 806	Dissertation Research III	
ARTS 807	Dissertation Research IV	

### Electives

Students, with advisement and in accordance with their educational plan, can choose to take a cohort of three electives in the same content area, or may choose to take one elective each in three different content areas. \*\*

Total Credits 66.0

\* The dissertation is an original research project, the content of which directly relates to the epistemology, theory, and/or practice of the student's creative arts therapy specialization.

\*\* Students, with advisement and in accordance with their educational plan, can choose to take a cohort of three electives in the same content area, or may choose to take one elective each in three different content areas. The content areas must be related to those covered in the interdisciplinary seminars. In some cases, as approved by the program director, students may take advanced research course electives.

All electives must be graduate courses and can be selected from those courses offered at Drexel University. In particular, doctoral level courses in the College of Nursing and Health Professions, School of Public Health, College of Arts and Sciences, and/or the School of Education may be the most relevant to students in this program. (The Creative Arts in Therapies PhD program director will obtain permission for the student to take the

elective from the relevant Dean of the College or School, and the relevant program director and course instructor. )

Content areas that are acceptable for electives include the following: anthropology, biology, creativity, culture and communication, ethics, health psychology, literature, neuroanatomy, neuropsychology, philosophy, psychology, psychoanalysis, sociology, advanced statistics. Additional content areas may be added by special request as approved by the supervising faculty advisor and program director.

## PhD in Creative Arts in Therapy Admission Requirements

Applicants for the Doctor of Philosophy (PhD) Program in Creative Arts in Therapy are screened based upon the required application documents plus a personal interview by the faculty. The application documents and interview are designed to assess the applicants aptitudes and commitment to advanced academic achievement and the development of scholarship. To that end, the application must document the following requirements for each candidate:

### Degree

Masters Degree in Art Therapy, Dance/Movement Therapy, Music Therapy, or Expressive Therapies.

### Pre-Requisites (in addition to or included in Master's degree)

- 6 semester (9 quarter) credits equivalent in graduate level Research coursework.
- 3 semester (4 quarter) credits equivalent of graduate coursework in Multiculturalism, Anthropology, or Sociology.

### Research Education and Training

The PhD in Creative Arts in Therapy is a research degree. Consequently it is essential that those entering the program demonstrate foundational education and experience in research.

- Documented research courses with a grade of no less than a 'B'.
- Documentation of having conducted one research project. This can be a master's thesis project or post-master's research.

### Scores and GPA

- GRE with scores of 1100/4.0 or MAT with scores of 396 or above.
- GPA of 3.5 or above from the master's degree education.

### Clinical Experience and Credentials

- A minimum of 3 years full-time equivalent post-master's degree creative arts therapies clinical practice.
- Professional Credentials including Board Certification and/or Registration in the applicant's Creative Arts in Therapy discipline. A professional license is preferred but not required.

### Academic Writing Proficiency

Central to success in the PhD program is the ability to write at a professional scholarly level. Even though this ability will develop as a result of being a doctoral student, it is essential that the applicant demonstrate having both interest in, commitment to, and aptitude for scholarly writing. To demonstrate this interest, commitment, and aptitude

each applicant is being asked to comply with the following criteria. This requirement provides the opportunity for each applicant to select the scholarly writing samples that best represent their abilities. All writing samples should be submitted in APA format, double spaced, 11-12pt. font.

- Demonstration of scholarly writing proficiency from an academic writing sample. This could be a graded graduate writing sample or an independently authored publication.
- Documentation of having submitted an article for a peer reviewed publication. The documentation should be in the form of a manuscript that was submitted to a journal or as a chapter in an edited book. This manuscript can also be used for the academic writing sample if it was authored solely by the applicant. If it was co-authored an additional independently authored sample is required to fulfill the requirement for demonstration of scholarly writing proficiency.

**Letters of Recommendation:** Three letters of recommendation are required as a part of the application process. The letters should be from individuals who can knowledgeably address the applicant's aptitudes for scholarship and teaching. Recommenders should also address the applicant's maturity, initiative, self-directed motivation, and commitment to higher education.

### Admissions Essay

- Describe your reasons for applying to the PhD Program, your research experience and interests and your academic and career goals. The essay should be no longer than 2 pages, 12 pt. font, double spaced.

Following the initial screening of the application materials for the initial criteria if a determination is made that the applicant meets the criteria, the applicant is scheduled for an interview with the faculty of the Department of Creative Arts Therapies. The interview protocol includes:

- Review of application materials and associated questions to address scholarly competencies for the program.
- Discussion regarding the theory and practice of the creative arts therapies and the applicant's specific discipline.
- Discussion of the applicant's research interests, competencies, and ideas.
- Discussion of the applicant's reasons and motivation for applying for doctoral education.

Please contact Mr. George Urgo, Admissions Coordinator, for additional information about the admission requirements and the application process. (215) 762-6921 or [gdu23@drexel.edu](mailto:gdu23@drexel.edu).

### Note: Admissions Schedule

The early priority deadline is January 15th, with rolling admissions through July 1st.

For additional information about how to apply, visit the Drexel Admissions page on PhD in Creative Arts in Therapy ([http://www.drexel.edu/grad/programs/cnhp/apply/requirements/p\\_phd\\_cartx](http://www.drexel.edu/grad/programs/cnhp/apply/requirements/p_phd_cartx)).

## Master of Science in Human Nutrition

### About the Program

*Master of Science: 45.0 quarter credits*



The human nutrition major is concerned with normal and therapeutic nutrition for individuals and groups. This major also encompasses nutrition science, the application of the principles of biochemistry, physiology, and biology to human nutritional needs. Current research in human nutrition includes food preference and nutrition, nutrition assessment, and effectiveness of nutrition education (particularly by the use of multimedia) on health and eating habits. Current research in nutrition science includes physiological and genetic determinants of obesity, lipid metabolism, nutraceuticals, and diet-endocrine interrelationships.

Graduate study in human nutrition is offered on both a full-time and part-time basis. Soon after matriculation students consult with their advisors and complete a plan of study. All students are expected to file a plan of study with the graduate advisor before the end of their third term of matriculation. In addition to the core curriculum students select specialty courses relating to their major, as well as electives.

Visit the College's MS in Human Nutrition web page (<http://www.drexel.edu/nutrition/programs/humanNutrition>) for more information.

## Program Prerequisites

The program's approach to graduate study in Human Nutrition is quantitative; therefore, applicants should have demonstrated competency in the coursework or its equivalent listed below.

Applying to the MS in Human Nutrition with Didactic Program in Dietetics (DPD) program requires special planning. Students are admitted only in the Fall term. The first consideration before submitting an application is whether all prerequisites have been met. Students are encouraged to apply as early as possible so that transcripts can be reviewed and prerequisites determined.

- 1 year English composition and/or literature
- 1 semester general biology with lab to include cells and genetics
- 1 - 2 semesters general chemistry with lab
- 1 semester organic chemistry with lab
- 1 semester biochemistry with lab
- 1 semester human physiology with lab or 2 semesters anatomy & physiology with lab
- 1 semester basic food preparation (DPD track only)
- 1 semester quantity foods (DPD track only)
- 1 semester general psychology
- 1 semester statistic
- 1 semester nutrition

## Degree Requirements

Students are required to complete 21.0 credits of CORE courses and then select 24.0 credits of electives chosen from courses currently offered in Biology, Nutrition, Food Science, Environmental Science or Public Health after consulting with their advisor. Those students choosing the thesis option substitute 6 credits of research for two elective courses. Those students choosing the non-thesis option are required to pass a comprehensive exam before being granted their MS

### Required Courses

BIO 610	Biochemistry of Metabolism	3.0
BIO 641	Data Analysis in Biosciences	3.0

NFS 530	Macronutrient Metabolism	3.0
NFS 531	Micronutrient Metabolism	3.0
NFS 601	Research Methods	3.0
NFS 629	Readings in Nutrition Science	3.0
BIO 679	Issues in Scientific Research	3.0

### Nutrition Science Electives 9.0

Select three of the following:

NFS 525	Nutritional Assessment
NFS 545	Nutrition in Critical Care
NFS 630	Nutrition Counseling
NFS 634	Women's Issues in Nutrition
NFS 640	Nutrition of the Schoolchild
NFS 641	Nutrition in Later Maturity
NFS 690	Community Nutrition
NFS 696	Methods of Teaching Dietetics
NFS 732	Weight Management and Eating Disorders

### Electives 15.0

In consultation with their graduate advisory committee or graduate advisor, students select electives from departmental or related course offerings. Some examples include the following:

Select five of the following:

BIO 670	Medical Microbiology
BIO 680	Special Topics
BMES 604	Pharmacogenomics
FDSC 560	Food Chemistry
ENVS 621	Epidemiology
ENVS 636	Principles of Toxicology I

### Thesis Option

Students selecting the thesis option may include up to 6 credits of NFS 997 Research in Nutrition and Food Sciences among their electives.

### Non-thesis Option

Students selecting the non-thesis option are required to pass a written comprehensive examination. Students electing the non-thesis option may include up to 3 credits of NFS 997 Research in Nutritional and Food Sciences among their electives.

Total Credits	45.0
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## MS in Human Nutrition with Didactic Program in Dietetics (DPD)

The Didactic Program in Dietetics (DPD) (<http://www.drexel.edu/nutrition/programs/humanNutrition>) provides the coursework that is required to become a Registered Dietitian. Students who want to become a Registered Dietitian must successfully complete coursework approved by the Commission on Accreditation for Dietetics Education of the American Dietetics Association (ADA). Drexel University is one of the first universities in the country to offer the DPD program on the graduate level.

The MS in Human Nutrition with the DPD option is a full- or part-time program with courses offered in the evening. The program is 45 credits with a written comprehensive exam and may be completed in 2 years with full-time study.

After completing the MS in Human Nutrition, students participating in this program will also receive a Verification Statement which shows successful completion of the DPD.

#### Required Courses

FDSC 506	Food Composition & Behavior	3.0
NFS 530	Macronutrient Metabolism	3.0
NFS 531	Micronutrient Metabolism	3.0
NFS 543	Medical Nutrition Therapy I	3.0
NFS 544	Medical Nutrition Therapy II	3.0
NFS 546	World Nutrition	3.0
NFS 545	Nutrition in Critical Care	3.0
NFS 601	Research Methods	3.0
NFS 630	Nutrition Counseling	3.0
NFS 680	Special Topics (Dietetics Seminar)	3.0
NFS 680	Special Topics (Nutritional Assessment Through Lifespan)	3.0
NFS 680	Special Topics (Systems Management )	3.0
NFS 690	Community Nutrition	3.0
NFS 849	Readings in Therapeutic Nutrition	3.0
Elective		3.0
Total Credits		45.0

## MSN in Nurse Anesthesia

### About the Program

*Master of Science in Nursing (MSN): 89.0 quarter credits*

The Master of Science in Nursing in nurse anesthesia is a 28-month, 89 quarter credit, full-time program. The program offers 18 theoretical nursing and research credits, a 15 quarter credit basic science component, a 31 quarter credits didactic anesthesia component and a 25 credit clinical component. Upon successful completion of the program's outcomes the student is awarded an MSN in nurse anesthesia and is eligible to take the national certification examination offered by the NBCRNA Council on Certification of Nurse Anesthetists.

The Nurse Anesthesia Program is accredited by the: Council on Accreditation of Nurse Anesthesia Educational Programs, 222 South Prospect Avenue, Suite 304 Park Ridge, IL 60068 847.692.7050

#### PMC in Nurse Anesthesia

The College of Nursing and Health Professions also offers a Post-Master's Certificate (PMC) in Nurse Anesthesia option. The PMC is a 28-month 68 quarter credit, full-time program. The program offers 3 theoretical nursing and research credits, 9 quarter credits in basic science, a 31 quarter credits didactic anesthesia component and a 25 credit clinical component. Upon successful completion of the program's outcomes the student is awarded a PMC in nurse anesthesia and is eligible to take the national certification examination offered by the NBCRNA Council on Certification of Nurse Anesthetists.

### Additional Information

For more information, contact the Academic Advisor of the Nurse Anesthesia Program:

MSN Programs Academic Advisor  
1505 Race St.  
215.762.8548

Additional information is also available on Drexel's College of Nursing and Health Professions Nurse Anesthesia Program (<http://www.drexel.edu/gradnursing/msn/nurseAnesthesia>) web page.

### Admission Requirements

The Nurse Anesthesia program begins annually in January. Applications are reviewed continually. Applications should be made 12-18 months in advance of the anticipated January start date. Interviews are conducted throughout the year.

Prospective applicants must demonstrate their ability to pursue graduate work, as exemplified by high scholastic achievement, high aptitude-test scores, and letters of recommendation. Applicants for the Nurse Anesthesia programs may submit scores from the Miller Analogies Test (MAT) in lieu of the GRE.

For detailed admission requirements, visit the College's MSN in Nurse Anesthesia Admission Requirements (<http://www.drexel.edu/gradnursing/msn/nurseAnesthesia/admissions>) web page.

An application form and additional requirements and deadline information is available on the the Nurse Anesthesia ([http://www.drexel.edu/grad/programs/cnhp/apply/requirements/p\\_msn\\_nuan](http://www.drexel.edu/grad/programs/cnhp/apply/requirements/p_msn_nuan)) page of Drexel Admissions website.

### Degree Requirements

#### MSN Core Courses

NURS 500	Confronting Issues in Contemporary Health Care Environments	3.0
NURS 502	Advanced Ethical Decision Making in Health Care	3.0
NURS 526	Information, Innovation & Technology in Advanced Nursing Practice	3.0
NURS 527	Evidence Based Approaches to Practice	3.0
NURS 549	Advanced Pharmacology	3.0
RSCH 519	Introduction to Biostatistics	3.0
RSCH 523	Methods for Health Research	3.0

#### Nurse Anesthesia Core

NURS 503	Basic Principles of Nurse Anesthesia	3.0
NURS 504	Overview of Nurse Anesthesia	3.0
NURS 505	Chemistry and Physics	3.0
NURS 507	Nurse Anesthesia Pharmacology I	3.0
NURS 510	Advanced Principles of Nurse Anesthesia I	3.0
NURS 511	Nurse Anesthesia Pharmacology II	3.0
NURS 515	Advanced Principles of Nurse Anesthesia II	3.0
NURS 518	Advanced Principles of Nurse Anesthesia III	3.0
NURS 530	Anesthesia Seminar	1.0
NURS 659	Advanced Principles of Nurse Anesthesia IV	3.0
NURS 688	Clinical Correlative Seminars	3.0
NURS 508	Nurse Anesthesia Clinical Practicum I	1.0

NURS 512	Nurse Anesthesia Clinical Practicum II	1.0
NURS 516	Nurse Anesthesia Clinical Practicum III	2.0
NURS 517	Nurse Anesthesia Clinical Practicum IV	3.0
NURS 683	Nurse Anesthesia Clinical Practicum V	3.0
NURS 684	Nurse Anesthesia Clinical Practicum VI	3.0
NURS 687	Clinical Residency I	6.0
NURS 689	Clinical Residency II	6.0

#### Physiological Science Courses

NURS 520	Advanced Physiology	3.0
NURS 521	Advanced Pathophysiology I	3.0
NURS 522	Advanced Pathophysiology II	3.0
NURS 523	Advanced Pathophysiology III	3.0

Total Credits		89.0
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## Doctor of Nursing Practice in Nursing Science

### About the Program

*Doctor of Nursing Practice (DrNP): 48.0 quarter credits*

The Doctor of Nursing Practice in Nursing Science (DrNP) is an innovative, practice-focused, academic doctorate requiring the completion of a clinical dissertation. The program prepares nurses to teach, lead, and engage in practical, clinically focused scholarship and research. This unique hybrid program is specifically designed to maximize the number of potential career roles the doctoral nursing graduate may assume, whether they be academic, in advanced clinical practice, or in executive healthcare leadership.

The DrNP, with its focus on clinical nursing practice, is the first Clinical Research Doctor of Nursing Practice degree in the nation. Graduates will be educated for many diverse career roles and will also be able to engage in practical, clinically oriented scholarship and research.

The program is designed as a part-time cohort model, and can be completed in three years. There is also an Alternate Cohort Program for students who want to slow the pace of coursework down (starting in the second year). This program can be completed part-time in four years.

### Program Objectives

- Prepare doctoral nursing graduates to assume roles in academia, advanced clinical practice, or in executive nursing and health care leadership.
- Provide an educational experience that is innovative, enriching, rigorous and scholarly to encourage graduates to promote the health of a nation, either through direct advanced practice nursing care, or indirectly through teaching, research, and executive leadership in nursing and healthcare.
- Promote the use and integration of technology to support learning and scholarship in doctoral nursing education.
- Contribute to the body of knowledge to further develop the science of nursing through clinical nursing scholarship.

### Curricular Objectives

The Doctor of Nursing Practice in Nursing Science (with a focus on Clinical Practice) has the following primary curricular objectives:

- Establish a theoretical nursing science background for analyzing clinical nursing phenomena.
- Build upon the student's existing practice knowledge.
- Enhance each student's knowledge with a specialized clinical practicum of his or her own choosing.
- With the use of a specialized role practicum, support the importance of role development for clinical nursing scholars with the doctorate who may choose from a variety of career opportunities.
- Emphasize clinical nursing research with the aim of improving health across the life span through scientific inquiry.

It is important to note that the DrNP program is an academic doctorate, requiring the completion of a clinical dissertation. The clinical dissertation is scholarly and is generally completed in one year. It should substantively contribute to nursing science knowledge, but differs both in scope and in its applied emphasis from the typical PhD dissertation. View the Curriculum (<http://www.drexel.edu/catalog/doctorate/drnp.htm>) for more detailed information about specific degree requirements.

### Admission Requirements

Admissions requirements and deadlines, along with the relevant forms can be found on the Doctor of Nursing Practice ([http://www.drexel.edu/grad/programs/cnhp/apply/requirements/p\\_drnp\\_cnh](http://www.drexel.edu/grad/programs/cnhp/apply/requirements/p_drnp_cnh)) page of the Graduate Admissions website.

For more information about the program, visit the College of Nursing's DrNP Program (<http://www.drexel.edu/gradnursing/drnp>) web page.

### Degree Requirements

This cohort program is designed to be completed part-time in three calendar years. The curriculum offers four different career tracks:

- **The Practitioner Track:** for the student who wants to remain in clinical practice post-graduation.
- **The Educator Track:** for the student who aspires to a career as a nursing professor, but who also wants a doctorate more grounded in clinical practice.
- **The Clinical Scientist Track:** for graduates who seek a clinical research career, particularly in clinical trials management or as a stepping stone to a postdoctoral research fellowship.
- **The Clinical Executive Track:** for graduates who want careers in executive nursing and health care management, but who still prefer a nursing doctorate with a connection to clinical practice.

#### Curriculum

All students select a clinical specialty focus and complete a related clinical and role practicum and a clinically-focused dissertation. The doctoral curriculum is constructed around five core fields:

#### Nursing Science Core

NURS 700	Phil of Natural and Soc Sci	3.0
NURS 716	Structure of Sci Knowledge	3.0
NURS 715	Human Responses - Psychologic	3.0
NURS 710	Human Responses - Physiologic	3.0

#### Nursing Practice Core

NURS 703	Politics of Health	3.0
NURS 836	Clinical and Applied Nursing Ethics	3.0
NURS 830	DrNP Clinical Practicum	3.0

NURS 835	DrNP Role Practicum	3.0
<b>Research Methods Core</b>		
NURS 717	Applied Epidemiology/Biostats	3.0
NURS 718	Quantitative Methods in Clinical Nursing	3.0
NURS 819	Qualitative Methods in Clinical Nursing	3.0
<b>Cognate Core</b>		
Two approved electives for course of study (must support either the clinical practicum, role practicum, or clinical dissertation)		6.0
<b>Dissertation Core</b>		
NURS 900	Dissertation Seminar	3.0
NURS 996	Dissertation Advisement I	2.0
NURS 997	Dissertation Advisement II	2.0
NURS 998	Dissertation Advisement III	2.0
Any student may be assigned additional cognates to properly support the dissertation topic		
Total Credits		48.0

**Note: Residency Requirement**

A one-week on-campus intensive residency requirement the first week of the summer quarter each year (for two years) is required. Students must complete both weeks of summer residency. During each year's summer week of residency, a noted clinical nursing scholar will be featured and students will attend workshops on statistical and qualitative software instruction, participate in scholarly presentations, network with fellow student colleagues and faculty, and prepare for completion of the program, dissertation proposal, and dissertation. Students who do not progress normally through the cohort program may be required to attend additional summer intensive residencies until they are eligible to register for the Dissertation Seminar.

## Doctor of Physical Therapy

### About the Program

*Doctor of Physical Therapy (DPT): 128.0 quarter credits*

The Doctor of Physical Therapy (DPT) curriculum is directed toward producing broadly educated physical therapists, yet is sensitive to the needs of the health care community and the students' interests. The program strives to foster both intellectual and professional growth in students and is reflective of contemporary practice to prepare graduates for the ongoing changes in health care delivery.

The curriculum is directed toward producing broadly educated physical therapists, yet is sensitive to the needs of the health care community and the students' interests. The program strives to foster both intellectual and professional growth in students and is reflective of contemporary practice to prepare graduates for the ongoing changes in health care delivery.

The Doctor of Physical Therapy (DPT) program prepares students for autonomous practice in physical therapy. As a science, physical therapy examines human motion at the tissue, organ, and systems levels. In the clinical environment, physical therapists (PTs) examine and evaluate patients/clients and implement procedural interventions that restore physical function for all people across the life span. As essential practitioners in the health care delivery system, PTs assume roles in rehabilitation services, prevention and health maintenance programs, and professional and community programs. As professional members of the health care team, PTs supervise support personnel, serve as consultants to other health care personnel; serve as consultants to families and

caregivers; participate in administrative services; and conduct clinical research. PTs also serve as advocates for health policy and standards of care that help ensure optimum care for their patients/clients.

Graduates of the Doctor of Physical Therapy program are prepared to fulfill their professional obligations, provide leadership to the profession, and use their knowledge and skills to contribute to the health care of society.

The 31-month curriculum spans ten academic quarters and consists of integrated didactic and clinical study with an emphasis on adult learning methodology. The curriculum consists of foundational courses during the first year, with subsequent quarters sequenced to progress through the hierarchy of educational objectives from simple to complex. All didactic material is organized for synthesis and application to professional practice.

The program strives to foster both intellectual and professional growth in students and is reflective of contemporary practice. An overarching goal is to prepare graduates for practice in the changing health care delivery environment.

For more information visit the Physical Therapy and Rehabilitation Science (<http://www.drexel.edu/physicalTherapy/programs/dpt>) page on the College of Nursing and Health Professions website.

For application instructions, visit the Drexel's Graduate Admission web page for the Doctor of Physical Therapy ([http://www.drexel.edu/grad/programs/cnhp/apply/requirements/p\\_dpt\\_pt](http://www.drexel.edu/grad/programs/cnhp/apply/requirements/p_dpt_pt)).

## Degree Requirements

The DPT curriculum occurs in a 10-week quarter format over ten quarters: fall, winter, spring, and summer I; fall, winter, spring, and summer II; and fall and winter III.

The program comprises 10 academic and clinical quarters occurring over 31 months. Classes begin in late September for first-year students.

The curriculum is subject to modification.

The Plan of Study for the Program consists of ten terms of courses.

**First Year**

Fall		Credits
PTRS 530	Kinesiology I	4.0
PTRS 534	Physical Therapy Exam & Intervention I	3.0
PTRS 532	Human Gross Anatomy I	4.0
PTRS 537	Clinical Correlations I	3.0
PTRS 633	Professional Development	1.0
PTRS 613	Clinical Practice I	0.5
<b>Term Credits</b>		<b>15.5</b>
<b>Winter</b>		
PTRS 533	Human Gross Anatomy II	3.5
PTRS 531	Kinesiology II	3.0
PTRS 535	Physical Therapy Exam & Intervention II	3.0
PTRS 539	Topics in Pathophysiology I	3.5
PTRS 624	Functional Modality	2.5
PTRS 614	Clinical Practice II	0.5



PTRS 751	Evidence-Based Practice	2.0
	<b>Term Credits</b>	<b>18.0</b>
<b>Spring</b>		
NEUR 507	Neuroscience I	3.0
PTRS 620	Orthopedic Physical Therapy: Upper Extremity	4.0
PTRS 623	Physical Agents	4.0
PTRS 540	Topics in Pathophysiology II	2.0
PTRS 639	Motor Learning	2.5
PTRS 615	Clinical Practice III	0.5
	<b>Term Credits</b>	<b>16.0</b>
<b>Summer</b>		
NEUR 508	Neuroscience II	2.0
PTRS 621	Orthopedic Physical Therapy: Lower Extremity	4.0
PTRS 627	Cardiopulmonary Physical Therapy I	4.0
PTRS 641	Neurological Exam and Intervention I	4.0
PTRS 646	Orthosis Management	1.5
PTRS 616	Clinical Practice IV	0.5
	<b>Term Credits</b>	<b>16.0</b>
<b>Second Year</b>		
<b>Fall</b>		
PTRS 652	Life Span Development I	3.0
PTRS 634	Health Professional Roles	3.0
PTRS 644	Wound Care Management	1.5
PTRS 645	Prosthesis Management	1.5
PTRS 752	Research and Measurement in Physical Therapy	2.0
PTRS 774	Clinical Education Seminar	0.5
PTRS 775	Clinical Education I	1.0
	<b>Term Credits</b>	<b>12.5</b>
<b>Winter</b>		
PTRS 622	Orthopedic Physical Therapy: Spine	4.0
PTRS 628	Cardiopulmonary Physical Therapy II	4.0
PTRS 637	Professional Project I	1.0
PTRS 642	Neurological Exam and Intervention II	5.0
PTRS 656	Motor Control and Rehabilitation	2.0
	<b>Term Credits</b>	<b>16.0</b>
<b>Spring</b>		
PTRS 776	Clinical Education II	2.0
PTRS 610*	Issues in Pharmacotherapy	3.0
	<b>Term Credits</b>	<b>5.0</b>
<b>Summer</b>		
PTRS 538	Clinical Correlations II	3.0
PTRS 632	Pediatric Physical Therapy	5.5
PTRS 643	Applied Biomechanics	3.0
PTRS 653	Life Span Development II	2.0
PTRS 654	Topics in Health Policy & Services	2.0
PTRS 753	Evaluation of Research in Physical Therapy	4.0
	<b>Term Credits</b>	<b>19.5</b>
<b>Third Year</b>		
<b>Fall</b>		
PTRS 777	Clinical Education III	2.0
PTRS 655*	Health Administration	2.5
	<b>Term Credits</b>	<b>4.5</b>

**Winter**

PTRS 778	Clinical Internship	3.0
PTRS 647	Professional Project II	2.0
	<b>Term Credits</b>	<b>5.0</b>

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Total Credit: 128.0

\* Conducted online.

## Clinical Education

A strong history of comprehensive clinical education exists for professional students. The clinical education for the DPT program is integrated into the didactic portions of the curriculum so that knowledge obtained in the classroom is readily put into practice. The DPT program has contracts with hundreds of clinical sites across the nation, representing all facets of professional practice. Students are required to complete four clinical education experiences that offer various levels of acuity in different clinical environments. The first clinical education experience is 6 weeks in length, clinical education II and III are 10 weeks long, and the fourth experience, the clinical internship, is 12 weeks.

Students may select from clinical sites that offer experiences in pediatrics, adult rehabilitation, geriatrics, orthopedics, sports medicine, and industrial and occupational rehabilitation.

For more information visit the Physical Therapy and Rehabilitation Sciences Overview (<http://www.drexel.edu/physicalTherapy>) page on the College of Nursing and Health Professions web site.

## Facilities

### Teaching Facilities

Most classes are held in lecture halls, classrooms, or laboratories on the Center City (Health Sciences) Campus of Drexel University. The entire campus has wireless capability for easy internet access. The Department of Physical Therapy and Rehabilitation Sciences has two state-of-the-art dedicated laboratories where the clinical components of the professional curriculum are taught. In these laboratories equipment reflects current physical therapy practice and is part of a multi-disciplinary clinical learning and resource center. Included as part of the resource center is a standardized patient lab that utilizes paid actors to simulate various clinical situations while students' interactions with those "patients" are monitored by supervising faculty. This center provides a rich environment for student learning.

Our teaching resources also include supported distance learning technology. Instructional materials are provided through text, graphics, audio and video formats and are available online through a course management system 24 hours a day. Our online courses are highly interactive through the use of web discussion boards and audio chat tools.

Additionally, the Professional DPT program uses various clinical sites in the area to enhance the educational experience of the student. Some teaching sessions, including the the content taught in the Clinical Practice series, are conducted at places like Bryn Mawr Rehabilitation Hospital, Hahnemann University Hospital, Magee Rehabilitation Hospital, Philadelphia Nursing Home, United Cerebral Palsy of Philadelphia, 11th Street Family Health Services, and in the Department of Athletics at

Drexel University. These experiences are in addition to the 38 weeks of clinical education the student will experience throughout the curriculum.

## Research Facilities

The department supports and maintains over 2,000 square feet of research laboratories. The gait and motion analysis lab contains a video-based motion analysis system with integrated EMG and in-floor force plates. The neuromuscular performance lab is equipped with custom-built force measuring systems, 16-channel EMG system and electromagnetic tracking systems. The osteoporosis lab is equipped with an integrated human performance measurement system. The pediatric research lab houses a conference room and data-entry computers.

The Department of Physical Therapy and Rehabilitation also values community partners as a central part of the research resources. Many faculty and students are involved in community-based research through collaborations with CanChild Centre, Shriners Hospital, 11th Street Family Health Center, and early intervention providers. Faculty are collaborating on research projects with nationally and internationally known researchers on several multi-site funded projects.

Professional DPT students have the opportunity to work with faculty and PhD students on ongoing laboratory projects through optional research practica or as part of the final project, a capstone experience for the curriculum.

## Rehabilitation Sciences

### About the Program

*Doctor of Philosophy: Credit requirements vary according to the student's previous degree:*

*Students with post-baccalaureate degrees (for example, MS, DPT) = 48.0 credits*

*Students with baccalaureate degrees = 93.0 quarter credits*

The Doctor of Philosophy (PhD) is designed to prepare physical therapists and other professionals to take leadership roles as researchers and educators in rehabilitation sciences, and to conduct research that will ultimately impact the quality of life for individuals with limitations in motor function. Concentrations are offered in three areas:

### Program Objectives

The PhD program prepares individuals for leadership, teaching and research roles in the profession. On completing the Doctor of Philosophy degree, graduates will be prepared to:

- Analyze the impact of movement dysfunction from multiple perspectives, including body function, activity, and participation.
- Analyze theory, research, and health care policy relevant to health promotion and rehabilitation to translate knowledge into clinical practice.
- Develop and evaluate innovative mechanisms, methods, interventions, and models of service delivery for health promotion and rehabilitation.
- Effectively communicate information orally through professional presentations and in writing through grant proposals and publications in peer-reviewed journals.
- Develop an ongoing area of research that is competitive for grant funding.

- Apply innovative teaching methods to a wide variety of situations, including the education of physical therapists and physical therapy students.

## Concentrations

### *Pediatrics*

The focus of the pediatric concentration is on understanding the multiple factors that affect motor function, health, and participation of children with disabilities or chronic conditions. This includes implications of health care policy and federal laws on service delivery, models of service delivery, outcomes measurement, and evaluation of interventions for children and their families.

### *Movement Science*

The focus of the movement science concentration is on understanding processes of motor control, motor learning, and motor development in individuals with limitations in motor function and applications for practice. This includes how practice schedules and augmented feedback influence the acquisition, retention, and transfer of perceptual-motor skills and principles underlying the control and coordination of acquiring and restoring motor skills.

### *Orthopedics*

The focus of the orthopedic concentration is on understanding the anatomy, physiology, and biomechanics of the musculoskeletal system as it relates to human performance and clinical practice. This includes impairments of muscle, connective tissue, and bone; relationships between the musculoskeletal and neuromuscular systems in the control of movement; and movement dysfunction.

## Degree Requirements

The core curriculum includes coursework in research and teaching. Concentration courses in clinical and basic science are selected based on the student's area of interest, objective for doctoral study, and dissertation research. Students work individually with a faculty mentor to complete the required research and teaching practica.

Requirements vary according to the student's previous degree. Students with master's degrees must successfully complete 48 credits; students with baccalaureate degrees must complete 93 credits. A comprehensive examination and a dissertation research project are required. The PhD degree can be completed in 3.5 to 4 years of full-time study for students who enter with a master's or DPT degree.

### Core Courses

RSCH 519	Introduction to Biostatistics	3.0
RSCH 811	Intermediate Biostatistics	3.0
RHAB 760	Academia for Rehabilitation Scientists	1.0
RHAB 761	Foundations of Rehabilitation Research	3.0
RHAB 812	Interpretation of Data	3.0
RHAB 813	Measurement Theory in Rehabilitation	3.0
RHAB 814	Research Designs in Rehabilitation	3.0
RHAB 815	Scientific Inquiry and Writing	3.0
RHAB 762	Teaching for Rehabilitation Faculty	2.0
RHAB 830	Dissertation Research	1.0-12.0

**Concentration/Elective Course Options** 8.0-12.0

A minimum of 8 to 12 additional credits of courses are selected based on the student's concentration area and objectives for graduate study. Students may take courses from any concentration with the approval of their advisor and permission of the course instructor.

RHAB 763	Biomechanics in Rehabilitation
RHAB 764	Biomechanics in Human Movement
RHAB 765	Introduction to Movement Science
RHAB 817	Sensors & Transducers in Rehabilitation
PTRS 650	Motor Control and Learning Rehabilitation
PTRS 651	Applied Tissue Biomechanics
PTRS 740	Issues in Pediatric Health & Rehabilitation
PTRS 758	Evidence-Based Rehabilitation
PTRS 760	Pediatric Decision Making
PTRS 761	Pediatric Clinical Application
PTRS 772	Selected Topics in Pediatrics
PTRS 764	Geriatric Rehabilitation
PTRS 766	Extremity Rehabilitation
PTRS 765	Spinal Rehabilitation
PTRS 767	Foundations in Hand Therapy
PTRS 768	Upper Quarter Joint Pathology
PTRS 769	Nerve Injuries of the Upper Quarter
PTRS 770	Diseases That Affect the Hand
PTRS 771	Work Injury Management
PTRS 780	Foundations of School-based Practice
PTRS 781	Advanced Competencies in School-based Practice

Additional courses (as approved) \*

#### Practica and Independent Study

RHAB 820	Independent Study	1.0-4.0
RHAB 823	Research Practicum	1.0-6.0
RHAB 824	Teaching Practicum I	1.0
RHAB 825	Teaching Practicum II	2.0
RHAB 826	Teaching Practicum III	3.0
Total Credits		48.0

\* Students also may take courses from other departments and schools in the University with approval of their advisor and permission of the course instructor.

## Master of Health Sciences

*Master of Health Sciences (MHS): 45.0 quarter credits*

Individuals cannot enroll directly in the Master of Health Sciences in Rehabilitation Sciences program.

Requirements for the degree completion include successful completion of 45.0 credit hours concluding with a case study or a clinical project.

Upon completion of the MHS program, graduates will be prepared to:

- Analyze the impact of injury or disease process on musculoskeletal or neuromuscular function within a specific population, including orthopedics, pediatrics, and hand rehabilitation.
- Improve their practice through clinical decision-making that is consistent with concepts of health promotion, client-centered care and current best evidence.

- Facilitate the transfer of health care policy and research findings into clinical practice.
- Evaluate methods of service delivery and intervention strategies and procedures at individual and program levels.
- Serve effectively as clinical educators and consultants to consumers and colleagues.
- Engage in professional life-long learning and contribute to the field of rehabilitation.

### Additional Information

For more information, visit the Department of Physical Therapy and Rehabilitation Sciences ([http://www.drexel.edu/cnhp/rehab\\_sciences/default.asp](http://www.drexel.edu/cnhp/rehab_sciences/default.asp)) web page.

*Master of Health Sciences (MHS): 45.0 quarter credits*

#### Core Requirements

RSCH 519	Introduction to Biostatistics	3.0
RSCH 523	Methods for Health Research	3.0
PTRS 721	Teaching Concepts in Rehabilitation	3.0
PTRS 651	Applied Tissue Biomechanics	3.0
PTRS 758	Evidence-Based Rehabilitation	4.0
PTRS 650	Motor Control and Learning Rehabilitation	3.0

#### Concentration

Students select a minimum of 16-18 credits in one of the following 6.0-18.0 concentrations.

#### Hand and Upper Quarter Rehabilitation Concentration Options

PTRS 767	Foundations in Hand Therapy
PTRS 768	Upper Quarter Joint Pathology
PTRS 769	Nerve Injuries of the Upper Quarter
PTRS 770	Diseases That Affect the Hand
PTRS 771	Work Injury Management

#### Pediatrics Concentration Options \*

PTRS 740	Issues in Pediatric Health & Rehabilitation
PTRS 760	Pediatric Decision Making
PTRS 761	Pediatric Clinical Application
PTRS 772	Selected Topics in Pediatrics

#### Orthopedics Concentration Options \*

PTRS 765	Spinal Rehabilitation
PTRS 766	Extremity Rehabilitation
RHAB 763	Biomechanics in Rehabilitation
RHAB 764	Biomechanics in Human Movement
RHAB 765	Introduction to Movement Science
PTRS 590	Clinical Anatomy
PTRS 767	Foundations in Hand Therapy
PTRS 768	Upper Quarter Joint Pathology
PTRS 769	Nerve Injuries of the Upper Quarter
PTRS 770	Diseases That Affect the Hand
PTRS 771	Work Injury Management

#### Electives \*

Select at least two of the following:		3.0-5.0
PTRS 612	Pharmacotherapeutics	
RHAB 824	Teaching Practicum I	
RHAB 825	Teaching Practicum II	

RHAB 826	Teaching Practicum III	
RHAB 816	Special Topics	
RHAB 820	Independent Study	
<b>Final Project</b>		
PTRS 786	MHS Final Project I	1.0-2.0
PTRS 787	MHS Final Project II	1.0-2.0
Total Credits		45.0

\* Additional courses (as approved). Contact the Rehabilitation Sciences Master of Health Science Program (<http://www.drexel.edu/physicalTherapy>) for more details.

For more information, visit the Department of Physical Therapy and Rehabilitation Sciences ([http://www.drexel.edu/cnhp/rehab\\_sciences/default.asp](http://www.drexel.edu/cnhp/rehab_sciences/default.asp)) web page.

## Facilities

### Teaching Facilities

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faculty and students are involved in community-based research through collaborations with CanChild Centre, Shriners Hospital, 11th Street Family Health Center, and early intervention providers. Faculty are collaborating on research projects with nationally and internationally known researchers on several multi-site funded projects.

Professional DPT students have the opportunity to work with faculty and PhD students on ongoing laboratory projects through optional research practica or as part of the final project, a capstone experience for the curriculum.



## MSN: Acute Health Care Nurse Practitioner Concentration

### About the Program

*Master of Science in Nursing (MSN): 55.0 quarter credits; 640 clinical hours*

The online Acute Health Care Nurse Practitioner program is designed to prepare practitioners for professional practice in the management of medical, surgical, and critical-care adult patient populations. Concurrent theory and clinical courses provide a knowledge base for the management of adult complex acute, critical, and chronic health care conditions. Clinical practicum rotations allow students to put the principles they have learned into practice in medical, surgical, and critical care settings. Upon completing the program, graduates pursue practice roles across the continuum of acute care services ranging from high-acuity hospital based emergency or intensive care settings to specialty based practices. Graduates are eligible to sit for the ANCC's Adult Acute Care Nurse Practitioner Certification Examination.

The nurse practitioner faculty is committed to quality and excellence in the nurse practitioner (NP) programs. Mandatory on-campus visits are essential to students transitioning into the NP role. The NP programs provide two on-campus clinical orientations to prepare students for clinical practice rotation. Following clinical orientation, these mandatory on-campus visits occur during the following times:

- *2nd Year, Spring Term* – students come in during the N550: Advanced Health Assessment and Diagnostic Reasoning course for midterm and final check-out.
- *2nd Year, Summer Term* – students come in during the first clinical course for the Residency Week.
- *3rd Year, Fall Term* – students come in during the second clinical course for 2-3 days for a standardized patient lab experience (SPL) and/or human patient simulation experience, depending on the program.
- *3rd Year, Winter Term* – students come in during the third clinical course for 2-3 days for a second standardized patient lab experience (SPL) and/or human patient simulation experience, depending on the program.
- *3rd Year, Spring Term* – students come in during the fourth clinical course for the second Residency Week.

For more information about this program, visit Drexel's MSN Nurse Practitioner Programs (<http://www.drexel.edu/gradnursing/msn/nursePractitioner>) web page

*Master of Science in Nursing (MSN): 55.0 quarter credits; 640 clinical hours*

#### MSN - Adult Acute Care Nurse Practitioner Track

##### Core Courses

NURS 500	Confronting Issues in Contemporary Health Care Environments	3.0
NURS 502	Advanced Ethical Decision Making in Health Care	3.0

NURS 526	Information, Innovation & Technology in Advanced Nursing Practice	3.0
NURS 527	Evidence Based Approaches to Practice	3.0
RSCH 519	Introduction to Biostatistics	3.0
RSCH 523	Methods for Health Research	3.0

##### Support Courses

NURS 548	Advanced Pathophysiology	3.0
NURS 549	Advanced Pharmacology	3.0
NURS 550	Advanced Physical Assessment & Diagnostic Reasoning Across the Lifespan	4.0
NURS 554	Pharmacology for Adult-Gerontology Acute Care Nurse Practitioners	3.0
NURS 664	Professional Issues for Nurse Practitioners	1.0

##### Clinical Courses

NURS 570	Adult-Gerontology Acute Care Nurse Practitioner I: Intro to adult-gerontology acute care medicine	5.0
NURS 571	Adult-Gerontology Acute Care NP II Mgmt/Care of Patients in Acute/Critical Care Medical Settings	5.0
NURS 572	Adult-Gerontology Acute Care NP III-Management and Care of Patients in Acute Surgical Settings	5.0
NURS 573	Adult-Gerontology Acute Care NP IV-Management of Care of Patients in Critical Care Settings	5.0

<b>Elective</b>		<b>3.0</b>
<b>Total Credits</b>		<b>55.0</b>

## MSN: Clinical Nurse Leader Concentration

### About the Program

*Master of Science in Nursing (MSN): 52.0 quarter credits*

This online masters program prepares nurses for advanced clinical roles in a quickly-changing, increasingly complex clinical care environment. Students have the opportunity to develop advanced competencies and depth of knowledge as clinical nurse leaders in adult health. The Clinical Nurse Leader program emphasizes evidence-based approaches to the solution of clinical problems, assessment of nursing and health care outcomes, clinical decision-making and the design of nursing care for clinical populations at the clinical unit or similar small system level, lateral care integration, and clinically-based leadership.

Clinical practicum experiences provide opportunities for students to deepen clinical skills and develop additional competencies for the management of clients' health care needs at the point-of-care. Precepted clinical experiences will include activities such as modeling of care, assessment and evaluation of aggregate patient outcomes, case management and service integration, unit and interdisciplinary team leadership, teaching and mentoring of staff.

In this as well as other MSN tracks, students build upon the MSN core courses and then move into support courses and specialized coursework. The curriculum also permits students to enroll part-time by spreading the required clinical hours over three terms.

The program is accredited by the National League for Nursing Accreditation Commission and the Commission on Collegiate Nursing Education.

## Additional Information

For more information about this program, contact:

Mr. Redian Furxhiu  
fr53@drexel.ed  
215.762.3999

Additional information is also available on Drexel's College of Nursing and Health Professions MSN in Clinical Nurse Leader (<http://www.drexel.edu/gradnursing/msn/advancedRoleMSN/clinNurseLeader>) web page.

## Degree Requirements

### MSN Core Courses

NURS 500	Confronting Issues in Contemporary Health Care Environments	3.0
NURS 502	Advanced Ethical Decision Making in Health Care	3.0
INFO 526	Information, Innovation & Technology in Advanced Nursing Practice	3.0
NURS 527	Evidence Based Approaches to Practice	3.0
RSCH 519	Introduction to Biostatistics	3.0
RSCH 523	Methods for Health Research	3.0

### Support Courses

NURS 548	Advanced Pathophysiology	3.0
NURS 549	Advanced Pharmacology	3.0
NURS 550	Advanced Physical Assessment & Diagnostic Reasoning Across the Lifespan	4.0

### Electives

Health outcomes elective (chosen with the advisement of the track coordinator)	3.0
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### Track Courses

NURS 531	Epidemiology in Action: Tracking Health & Disease	3.0
NURS 532	Evaluation of Health Outcomes	3.0
NURS 602	Foundations for Clinical Nurse Leader	4.0
NURS 603	Clinical Nurse Leader Capstone Immersion I	5.0
NURS 604	Clinical Nurse Leader Capstone Immersion II	5.0

### Professional Development

NURS 669	Professional Seminar for Advance Practice Nurses	1.0
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Total Credits	52.0
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## MSN: Clinical Trials Research Concentration

### About the Program

*Master of Science in Nursing (MSN): 45.0 quarter credits*

The online MSN program in Clinical Trials Research prepares nurses for careers in clinical trials with a variety of organizations, including community and private practices, pharmaceutical and other scientific companies that produce, test and market new products. The online curriculum is designed for part-time attendance by working nurses.

The MSN in Clinical Trials Research provides knowledge and skills in several critical areas: applying FDA rules and regulations; phases of clinical research investigation; new drug approval processes; drug

protocol development; budgeting for clinical trials; informed consent; patient and family issues; and business management and marketing for clinical trials.

The program is accredited by the National League for Nursing Accreditation Commission and the Commission on Collegiate Nursing Education.

## Additional Information

For more information about this program, contact:

Mr. Redian Furxhiu  
fr53@drexel.ed  
215.762.3999

Additional information is also available on Drexel's College of Nursing and Health Professions MSN in Clinical Trials (<http://www.drexel.edu/gradnursing/msn/advancedRoleMSN/clinicalTrialsResearch>) web page.

## Degree Requirements

The curriculum is based on the following principles:

- All areas of specialization have in common a core of advanced nursing knowledge.
- Every graduate must have knowledge and skill in research and the ability to evaluate and apply research findings.
- The nursing profession anticipates and responds to changing societal, health care and professional needs.
- The foundation for specialization in professional nursing practice is graduate-level education that builds on undergraduate education.

### Core Courses

INFO 526	Information, Innovation & Technology in Advanced Nursing Practice	3.0
NURS 500	Confronting Issues in Contemporary Health Care Environments	3.0
NURS 502	Advanced Ethical Decision Making in Health Care	3.0
RSCH 519	Introduction to Biostatistics	3.0
RSCH 523	Methods for Health Research	3.0
NURS 527	Evidence Based Approaches to Practice	3.0

### Major Courses

NURS 557	Leadership and Stewardship in the Health Professions	3.0
NURS 582	Foundation of Good Clinical Practice in Clinical Trials Mngmt	3.0
NURS 583	Operational Leadership in Clinical Trials Management	3.0
NURS 584	Current Topics in Clinical Trials	3.0
NURS 585	Clinical Trials Research Practicum	5.0

### Support Courses

NURS 548	Advanced Pathophysiology	3.0
NURS 549	Advanced Pharmacology	3.0
NURS 669	Professional Seminar for Advance Practice Nurses	1.0

<b>Elective</b>	3.0
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Total Credits	45.0
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For additional information, visit Drexel's College of Nursing and Health Professions MSN in Clinical Trials (<http://www.drexel.edu/gradnursing/msn/advancedRoleMSN/clinicalTrialsResearch>) web page.

## MSN: Family Nurse Practitioner Concentration

### About the Program

*Master of Science in Nursing (MSN): 59.0 quarter credits; 720 clinical hours*

The Family Nurse Practitioner (FNP) track focuses on the application of advanced-practice nursing knowledge—including physical, psychosocial, and environmental assessment skills—to manage common health and illness problems of clients of all ages. It emphasizes health promotion and disease prevention. Family nurse practitioners primarily practice in ambulatory-care settings, such as primary care clinics, physician offices, HMOs, outpatient clinics, schools, nursing centers, emergency departments, long-term care facilities, industry, the armed services, public health departments, correctional institutions, and home health agencies.

Students in this Track take online core and support courses with the exception of NURS 550: Advanced Physical Assessment and Diagnostic Reasoning and NURS 556: Pharmacology for Family Nurse Practitioners. Subsequent clinical courses are taken on-campus. Graduates of the program are eligible to sit for the ANCC's Family Nurse Practitioner Examination and/or the AANP's Family Nurse Practitioner Examination.

The nurse practitioner faculty is committed to quality and excellence in the nurse practitioner (NP) programs. Mandatory on-campus visits are essential to students transitioning into the NP role. The NP programs provide two on-campus clinical orientations to prepare students for clinical practice rotation. Following clinical orientation, these mandatory on-campus visits occur during the following times:

- *2nd Year, Spring Term* – students come in during the N550: Advanced Health Assessment and Diagnostic Reasoning course for midterm and final check-out.
- *2nd Year, Summer Term* – students come in during the first clinical course for the Residency Week.
- *3rd Year, Fall Term* – students come in during the second clinical course for 2-3 days for a standardized patient lab experience (SPL) and/or human patient simulation experience, depending on the program.
- *3rd Year, Winter Term* – students come in during the third clinical course for 2-3 days for a second standardized patient lab experience (SPL) and/or human patient simulation experience, depending on the program.
- *3rd Year, Spring Term* – students come in during the fourth clinical course for the second Residency Week.
- *3rd Year, Summer Term* – students come in for a one-day simulation experience.

For more information about this program, visit Drexel's MSN Nurse Practitioner Programs (<http://www.drexel.edu/gradnursing/msn/nursePractitioner>) web page.

## Degree Requirements

*Master of Science in Nursing (MSN): 59.0 quarter credits; 720 clinical hours*

### MSN - Family Nurse Practitioner Track

Core Courses		
NURS 500	Confronting Issues in Contemporary Health Care Environments	3.0
NURS 502	Advanced Ethical Decision Making in Health Care	3.0
NURS 526	Information, Innovation & Technology in Advanced Nursing Practice	3.0
NURS 527	Evidence Based Approaches to Practice	3.0
RSCH 519	Introduction to Biostatistics	3.0
RSCH 523	Methods for Health Research	3.0
Support Courses		
NURS 548	Advanced Pathophysiology	3.0
NURS 549	Advanced Pharmacology	3.0
NURS 550	Advanced Physical Assessment & Diagnostic Reasoning Across the Lifespan	4.0
NURS 556	Pharmacology for Family Nurse Practitioners	3.0
NURS 664	Professional Issues for Nurse Practitioners	1.0
Clinical Courses		
NURS 575	Family Nurse Practitioner I: Primary Care of Infants, Children & Adolescents	5.0
NURS 578	Family Nurse Practitioner III: Primary Care of Women	5.0
NURS 576	Family Nurse Practitioner I: Primary Care of Adults	5.0
NURS 577	Family Nurse Practitioner IV: Primary Geriatric Care	5.0
NURS 579	Family Nurse Practitioner V: Integrative Practicum in Family Practice	4.0
Elective		3.0
Total Credits		59.0

## MSN: Nursing Education & Faculty Role Concentration

### About the Program

*Master of Science in Nursing (MSN): 46.0 quarter credits*

The Nursing Education & Faculty Role track of the Drexel MSN program is directed primarily toward preparing the experienced clinician who is planning a career move into academia or whose responsibilities in educating the nurse workforce requires advanced knowledge and skills in the areas of teaching and learning. This online program is designed for part-time attendance by working nurses. Courses complement the student's clinical expertise by providing content that is relevant, state-of-the-art and evidence-based for individuals seeking nurse education positions in colleges, universities, or health care organizations.

### Additional Information

For more information about this program, contact:

Mr. Redian Furxhiu  
fr53@drexel.ed

215.762.3999

## Degree Requirements

### About the Curriculum

The program integrates theories specific to adult learning, curriculum design and evaluation of courses and programs. It combines theory, research and practice from the disciplines of education, management and leadership. Knowledge and skills gained through this program are applicable in a variety of settings in both the academic and clinical arenas.

### Core Courses

INFO 526	Information, Innovation & Technology in Advanced Nursing Practice	3.0
NURS 500	Confronting Issues in Contemporary Health Care Environments	3.0
NURS 502	Advanced Ethical Decision Making in Health Care	3.0
NURS 527	Evidence Based Approaches to Practice	3.0
RSCH 519	Introduction to Biostatistics	3.0
RSCH 523	Methods for Health Research	3.0

### Required Track Courses

NURS 597	Clinical & Didactic Teaching Methods	3.0
NURS 598	Teaching Critical Thinking & Clinical Decision-Making in Nursing	3.0
NURS 599	Curriculum Design in Nursing Education	3.0
NURS 600	Measurement & Evaluation in Nursing Education	3.0
NURS 613	The Role and Responsibility of the Nursing Professor	3.0
NURS 614	Technology for Nursing Education & Practice	3.0
NURS 626	Masters Nursing Education Practicum I	3.0
NURS 627	Masters Nursing Education Practicum II	3.0

### Professional Seminar

NURS 669	Professional Seminar for Advance Practice Nurses	1.0
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### Elective

Elective (500-level or above)		3.0
<b>Total Credits</b>		<b>46.0</b>

## MSN in Innovation and Intra/Entrepreneurship in Advanced Nursing Practice Concentration

### About the Program

*Master of Science in Nursing (MSN): 46.0 quarter credits*

The MSN in Innovation and Intra/Entrepreneurship in Advanced Nursing Practice is designed for the graduate nursing student who seeks to re-invent and innovate nursing practice in a variety of roles: as clinician, educator, administrator, clinical scientist, or in the business of healthcare. The program emphasizes entrepreneurial and curriculum flexibility and includes a substantive capstone project that demonstrates innovation and the extension of the creative boundaries in nursing education, nursing administration, and nursing practice.

### Additional Information

For more information about this program, contact:

Mr. Redian Furxhiu  
fr53@drexel.ed  
215.762.3999

For information about the online delivery format of this program, visit the Drexel University Online MSN Innovation and Intra/Entrepreneurship in Advanced Nursing Practice (<http://www.drexel.com/online-degrees/nursing-degrees/msn-innov>) web page.

## Degree Requirements

### MSN Core Courses

INFO 526	Information, Innovation & Technology in Advanced Nursing Practice	3.0
NURS 500	Confronting Issues in Contemporary Health Care Environments	3.0
NURS 502	Advanced Ethical Decision Making in Health Care	3.0
NURS 527	Evidence Based Approaches to Practice	3.0
RSCH 519	Introduction to Biostatistics	3.0
RSCH 523	Methods for Health Research	3.0

### Required Track Courses

NURS 564	The Business of Healthcare	3.0
NURS 586	Innovation in Advanced Nursing Practice: Theory and Application	3.0
NURS 587	Case Studies in Intra/Entrepreneurship and Innovation in Nursing	3.0
NURS 588	The Nurse as Intra/Entrepreneur and Consultant	3.0

### Practicum/Capstone Projects

NURS 636	Capstone Project I	3.0
NURS 637	Capstone Project II	3.0
NURS 638	Capstone Project III	3.0

### Professional Seminar

NURS 669	Professional Seminar for Advance Practice Nurses	1.0
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**Electives (by advisement with track coordinator)** 6.0

**Total Credits** 46.0

## MSN in Nursing Leadership in Health Systems Management Concentration

### About the Program

*Master of Science: 46.0 quarter credits*

The Nursing Leadership in Health Systems Management program, designed for part-time attendance by working nurses, prepares students to become nursing leaders in today's rapidly changing health care environment. The program focuses on development of a leadership style and skills set essential for individuals in or seeking administrative roles, including: fiscal and organizational management, strategic planning, integrated quality outcomes measurement, organizational structures, marketing, and management of human resources within organizations.

The program provides the student with information and strategies to problem solve, make decisions, resolve conflict, and operationalize the mission and goals of the health care delivery organization.



This program prepares nurses for supervisory and management responsibilities, building the necessary skills for leadership career tracks. Coursework for the MSN program, as well as for the certificate in Nursing Leadership and Management, can be completed online. The MSN also requires two terms of practicum.

The program is fully accredited by National League for Nursing Accreditation Commission and the Commission on Collegiate Nursing Education (CCNE).

### Additional Information

For more information about this program, contact:

Mr. Redian Furxhiu  
fr53@drexel.ed  
215.762.3999

Additional information is also available on the College's Nursing Leadership in Health Systems Management (<http://www.drexel.edu/gradnursing/msn/advancedRoleMSN/healthSystemsMgmt>) web page.

## Degree Requirements

The content addresses the four key areas of organizations: leading the human side of the enterprise, managing resources, managing operations, and managing information. Two threads are incorporated throughout all courses: the importance of professional image in written and live presentations and the use of technology to support and enhance management and care delivery outcomes.

### MSN Core Courses

INFO 526	Information, Innovation & Technology in Advanced Nursing Practice	3.0
NURS 500	Confronting Issues in Contemporary Health Care Environments	3.0
NURS 502	Advanced Ethical Decision Making in Health Care	3.0
NURS 527	Evidence Based Approaches to Practice	3.0
RSCH 519	Introduction to Biostatistics	3.0
RSCH 523	Methods for Health Research	3.0

### Required Nursing Leadership in Health Systems Management Track Courses

NURS 557	Leadership and Stewardship in the Health Professions	3.0
NURS 558	Economics of Healthcare Management & Policy	3.0
NURS 559	Operations Management in Contemporary Healthcare Organizations	3.0
NURS 563	Building and Leading High Performance Healthcare Organizations	3.0
NURS 564	The Business of Healthcare	3.0
NURS 567	Strategic Management: Power, Politics and Influence in Healthcare Systems	3.0
NURS 568	Practicum and Symposium in Healthcare Operations Management	3.0
NURS 569	Practicum and Symposium in Technology and Management of Information in Healthcare Organizations	3.0
Elective (chosen with the advisement of the track coordinator)		3.0

### Professional Seminar

NURS 669	Professional Seminar for Advance Practice Nurses	1.0
Total Credits		46.0

## MSN "Bridge" Program

### MSN for Nurses with a Non-Nursing BA or BS

*Bridge to the Master of Science in Nursing (MSN): 12.0 - 13.0 quarter credits (no degree awarded at this time)*

### About the Program

An RN/MSN "bridge" program is available for nurses who hold a non-nursing BA or a BS. Applicants to this program must complete the admission process to the MSN program and seek initial advisement from the academic adviser and from the Nurse Practitioner or Nurse Anesthesia program director. The graduate program director reviews the applicant's file for program eligibility, and prerequisites are established on an individual basis.

The "bridge" consists of three undergraduate courses or submission of a portfolio. Classes are available entirely online and are delivered in 10-week, quarter term sessions. At least one and often several bridge courses are offered in any given term. Most bridge courses include mandatory chat sessions.

Students who completed a community/public health nursing course in their initial nursing program may, with prior approval, be permitted to take NURS 460: Global Health and Policy Issues (6 quarter credits) instead of .

After successfully completing all requirements, and after admission to the MSN program, students progress directly into graduate-level courses. (Note: The BSN is not awarded in this program.)

### Bridge to MSN Requirements

NURS 325 [WI]	Critical Issues in Nursing	3.0
NURS 375	Nurses Building a Healthy Community	6.0
NURS 337 [WI] or NURS 370	Genetics in Nursing and Health Issues in Aging and Longevity	3.0-4.0
Total Credits		12.0-13.0

See the College's Nursing: MSN-Bridge Program (<http://www.drexel.edu/gradnursing/msn/fastTrack>) web page for more details about the program, and visit the Drexel University Online MSN Bridge Program (<http://www.drexel.com/online-degrees/nursing-degrees/rn-msn-bridge>) web page for information about the online delivery format.

### Additional Information

For more information about this program, contact:

Mr. Redian Furxhiu  
fr53@drexel.ed  
215.762.3999

See the College's Nursing: MSN-Bridge Program (<http://www.drexel.edu/gradnursing/msn/fastTrack>) web page for more details about the program, and visit the Drexel University Online MSN Bridge Program (<http://>

[www.drexel.com/online-degrees/nursing-degrees/rn-msn-bridge](http://www.drexel.com/online-degrees/nursing-degrees/rn-msn-bridge)) web page for information about the online delivery format.

## MSN: Pediatric Primary Care Practitioner Concentration

### About the Program

*Master of Science in Nursing (MSN): 55.0 quarter credits*

The online Pediatric Primary Care Nurse Practitioner track is directed toward preparing nurse practitioners who will take advanced nursing roles as clinicians, educators, researchers, and leaders in the rapidly changing, evidence-driven health care environment. The program emphasizes evidence-based practice, interdisciplinary collaboration, and critical use of evolving technology in the care of children and their families. While most pediatric nurse practitioners practice in primary care settings, the continuum of child healthcare spans the geographic settings of home care, ambulatory care, specialty care, urgent care, and rehabilitative care.

Pediatric primary care nurse practitioners provide advanced nursing care across the continuum of healthcare services to meet the specialized physiologic and psychological needs of patients from infancy through adolescence, and have competencies to manage well-child care as well as complex, acute, and chronic healthcare conditions within a family-centered healthcare model. Graduates are eligible to sit for the ANCC's Pediatric Primary Care Nurse Practitioner Examination and/or The PNCB's Pediatric Primary Care Nurse Practitioner Examination.

The nurse practitioner faculty is committed to quality and excellence in the nurse practitioner (NP) programs. Mandatory on-campus visits are essential to students transitioning into the NP role. The NP programs provide two on-campus clinical orientations to prepare students for clinical practice rotation. Following clinical orientation, these mandatory on-campus visits occur during the following times:

- *2nd Year, Spring Term* – students come in during the N550: Advanced Health Assessment and Diagnostic Reasoning course for midterm and final check-out.
- *2nd Year, Summer Term* – students come in during the first clinical course for the Residency Week.
- *3rd Year, Fall Term* – students come in during the second clinical course for 2-3 days for a standardized patient lab experience (SPL) and/or human patient simulation experience, depending on the program.
- *3rd Year, Winter Term* – students come in during the third clinical course for 2-3 days for a second standardized patient lab experience (SPL) and/or human patient simulation experience, depending on the program.
- *3rd Year, Spring Term* – students come in during the fourth clinical course for the second Residency Week.

For more information about this program, visit Drexel's MSN Nurse Practitioner Programs (<http://www.drexel.edu/gradnursing/msn/nursePractitioner>) web page.

## Degree Requirements

### Core Courses

NURS 526	Information, Innovation & Technology in Advanced Nursing Practice	3.0
NURS 500	Confronting Issues in Contemporary Health Care Environments	3.0
NURS 502	Advanced Ethical Decision Making in Health Care	3.0
RSCH 519	Introduction to Biostatistics	3.0
RSCH 523	Methods for Health Research	3.0
NURS 527	Evidence Based Approaches to Practice	3.0

### Support Courses

NURS 548	Advanced Pathophysiology	3.0
NURS 549	Advanced Pharmacology	3.0
NURS 550	Advanced Physical Assessment & Diagnostic Reasoning Across the Lifespan	4.0
NURS 646	Pharmacology for the Pediatric Nurse Practitioner	3.0

### Professional Seminar

NURS 664	Professional Issues for Nurse Practitioners	1.0
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### Elective

3.0

### Professional Seminar

NURS 642	PNPI: Wellness, Health Promotion & Disease Prevention in Infants, Children & Adolescents	5.0
NURS 643	PNPII: Episodic Care of Infants, Children & Adolescents	5.0
NURS 644	PNPIII: Primary Care Issues of Children with Chronic Illness	5.0
NURS 645	PNPIV: Primary Care of Adolescents	5.0

Total Credits		55.0
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## MSN: Psychiatric Mental Health Practitioner Concentration

### About the Program

*Master of Science in Nursing (MSN): 55.0 quarter credits; 640 clinical hours*

The online Adult Psychiatric Mental Health Nurse Practitioner track prepares practitioners to provide a wide range of services to adults and their families. The program of study is based on a biopsychosocial model of care. It includes the study and application of diagnostic and treatment modalities, and theories and approaches to practice. Graduates practice in a wide variety of settings as this program enables them to provide direct (assessment, intervention) and indirect (consultation, case management, and supervision) advanced practice services to individuals who are at risk and those who need mental health services. They are eligible to sit for the ANCC's Adult Psychiatric and Mental Health Certification Examination.

The nurse practitioner faculty is committed to quality and excellence in the nurse practitioner (NP) programs. Mandatory on-campus visits are essential to students transitioning into the NP role. The NP programs provide two on-campus clinical orientations to prepare students for clinical practice rotation. Following clinical orientation, these mandatory on-campus visits occur during the following times:

- *2nd Year, Spring Term* – students come in during the N550: Advanced Health Assessment and Diagnostic Reasoning course for midterm and final check-out.
- *2nd Year, Summer Term* – students come in during the first clinical course for the Residency Week.
- *3rd Year, Fall Term* – students come in during the second clinical course for 2-3 days for a standardized patient lab experience (SPL) and/or human patient simulation experience, depending on the program.
- *3rd Year, Winter Term* – students come in during the third clinical course for 2-3 days for a second standardized patient lab experience (SPL) and/or human patient simulation experience, depending on the program.
- *3rd Year, Spring Term* – students come in during the fourth clinical course for the second Residency Week.

For more information about this program, visit Drexel's MSN Nurse Practitioner Programs (<http://www.drexel.edu/gradnursing/msn/nursePractitioner>) web page.

## Degree Requirements

*Master of Science in Nursing (MSN): 55.0 quarter credits; 640 clinical hours*

### Core Courses

NURS 500	Confronting Issues in Contemporary Health Care Environments	3.0
NURS 502	Advanced Ethical Decision Making in Health Care	3.0
NURS 526	Information, Innovation & Technology in Advanced Nursing Practice	3.0
NURS 527	Evidence Based Approaches to Practice	3.0
RSCH 519	Introduction to Biostatistics	3.0
RSCH 523	Methods for Health Research	3.0

### Support Courses

NURS 548	Advanced Pathophysiology	3.0
NURS 549	Advanced Pharmacology	3.0
NURS 550	Advanced Physical Assessment & Diagnostic Reasoning Across the Lifespan	4.0
NURS 555	Psychopharmacology	3.0

### Professional Seminar

NURS 664	Professional Issues for Nurse Practitioners	1.0
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### Clinical Courses

NURS 592	PMHNP1: Theoretical Foundations of Psychiatric Mental Health	5.0
NURS 593	Advanced Mental Health Nurse Practitioner Theoretical Foundations and Psychopathology II	5.0
NURS 594	Adv Mental Health NP Treatment Modalities for Diverse Populations Across the Life Span	5.0
NURS 595	PMHNP IV: Adv Mental Health NP Mgmt and Care of Clients in Diverse Populations Across the Lifespan	5.0

<b>Elective</b>		3.0
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<b>Total Credits</b>		55.0
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## MSN: Women's Health Nurse Practitioner Concentration

### About the Program

*Master of Science in Nursing (MSN): 58.0 quarter credits; 640 clinical hours minimum*

The online Women's Health Nurse Practitioner track offers didactic and clinical education via distance learning and concurrent clinical preceptorships. The courses offered throughout the track reflect the competencies and skill sets required for today's Women's Health Nurse Practitioner as knowledge expands, health care systems evolve, technology advances and practice changes in response to current needs and evidence-based research. Additionally, this track offers the opportunity for the WHNP student to work in transdisciplinary simulated scenarios to promote a better understanding and respect of discipline-specific roles, improve existing communication and collaboration within disciplines, and initiate teamwork development in order to promote patient safety and high-quality patient care. Graduates are eligible to sit for the NCC's Women's Health Nurse Practitioner Examination.

The nurse practitioner faculty is committed to quality and excellence in the nurse practitioner (NP) programs. Mandatory on-campus visits are essential to students transitioning into the NP role. The NP programs provide two on-campus clinical orientations to prepare students for clinical practice rotation. Following clinical orientation, these mandatory on-campus visits occur during the following times:

- *2nd Year, Spring Term* – students come in during the N550: Advanced Health Assessment and Diagnostic Reasoning course for midterm and final check-out.
- *2nd Year, Summer Term* – students come in during the first clinical course for the Residency Week.
- *3rd Year, Fall Term* – students come in during the second clinical course for 2-3 days for a standardized patient lab experience (SPL) and/or human patient simulation experience, depending on the program.
- *3rd Year, Winter Term* – students come in during the third clinical course for 2-3 days for a second standardized patient lab experience (SPL) and/or human patient simulation experience, depending on the program.
- *3rd Year, Spring Term* – students come in during the fourth clinical course for the second Residency Week.

For more information about this program, visit Drexel's MSN Nurse Practitioner Programs (<http://www.drexel.edu/gradnursing/msn/nursePractitioner>) web page.

*Master of Science in Nursing (MSN): 58.0 quarter credits; 640 clinical hours minimum*

### Core Courses

NURS 500	Confronting Issues in Contemporary Health Care Environments	3.0
NURS 502	Advanced Ethical Decision Making in Health Care	3.0
RSCH 519	Introduction to Biostatistics	3.0
RSCH 523	Methods for Health Research	3.0
NURS 526	Information, Innovation & Technology in Advanced Nursing Practice	3.0

NURS 527	Evidence Based Approaches to Practice	3.0
<b>Support Courses</b>		
NURS 548	Advanced Pathophysiology	3.0
NURS 549	Advanced Pharmacology	3.0
NURS 550	Advanced Physical Assessment & Diagnostic Reasoning Across the Lifespan	4.0
NURS 680	Health, Wellness, and Primary Care	3.0
NURS 682	Pharmacology - Women's Health Nurse Practitioner	3.0
<b>Professional Seminar</b>		
NURS 664	Professional Issues for Nurse Practitioners	1.0
<b>Practicum Courses</b>		
NURS 690	Management/Care of Women Gynecological Needs I	5.0
NURS 691	Management/Care of Women in Gynecological Needs II	5.0
NURS 692	Mgmt/Care of Women/Families Obstetrical Needs I	5.0
NURS 693	Mgmt/Care of Women/Families Obstetrical Needs II	5.0
<b>Elective</b>		3.0
Total Credits		58.0



# Master of Health Science with Physician Assistant (PA) Certificate

## About the Program

*Master of Health Sciences (MHS): 117.0 quarter credits*

The Drexel University Physician Assistant Program provides graduates with a Master of Health Science degree with Physician Assistant Certificate, and eligibility to sit for the PANCE (Physician Assistant National Certifying Examination).

The physician assistant (PA) is a primary health care provider who, when graduated from an accredited program and national certified and state-licensed, is eligible to practice medicine with the legal supervision of a physician.

PAs perform many duties including, but not limited to, physical examinations, diagnosis and treatment of illnesses, ordering and interpretation of lab tests, assist in surgery, perform procedures, perform hospital rounds, prescribe medicines and provide patient education.

The goals of this program are to:

- Educate qualified primary care physician assistants
- Improve health care delivery in rural and urban medically under served areas
- Promote the physician assistant profession

## Additional Information

For more information about this program, contact:

Janet Stern  
Director of Admissions  
Master of Health Science with Physician Assistant Certification  
js64@drexel.edu

For more details about the program, visit the College of Nursing and Health Professions Physician Assistant (<http://www.drexel.edu/physAsst>) page.

## Degree Requirements

The intensive curriculum consists of professionally related coursework taken during a continuous period (the part-time option requires an additional calendar year) and gives students an understanding of both the health care system within which they will work and the functions appropriate to the role of the physician assistant. The curriculum is divided into a full year of didactic courses followed by an additional 15 months of supervised clinical practice.

Training begins with four quarters of didactic education which integrates patient interaction throughout. The clinical training phase consists of six (6) five-credit, five week clinical rotations in medicine, surgery, women's health, pediatrics, emergency medicine, and psychiatry. The clinical phase of the curriculum is completed on a full-time basis for both full and part-time students.

The final portion of the curriculum consists of two, 10-credit quarter-long, primary care practica (preceptorships). During the preceptorship phase, each student is assigned to two primary care sites for individualized

clinical training with physician preceptors. Training sites during the clinical year are located throughout Pennsylvania and in other states. Students are expected to relocate during the clinical phase and are responsible for all associated financial costs, including transportation and living expenses.

The program is intensely challenging, both intellectually and physically, and requires stamina as well as personal and financial sacrifice on the part of the students. The program demands a high degree of integrity, self-sufficiency, motivation, and self-discipline, and highly developed study skills.

The Physician Assistant program utilizes electronic documentation and communications. Therefore, all students are required to have laptop computers with Web access capability.

Contact the Physician Assistant Program (<http://www.drexel.edu/physAsst>) for more information on the sequencing for the part-time option.

## Required Courses

### First Year

Fall		Credits
PA 540	Clinical Anatomy	5.0
PA 545	Physician Assistant Practice	1.0
PA 543	Ethical Issues in Physician Assistant Practice	2.0
PA 542	Patient Communication	2.0
PA 544	Clinical Assessment	5.0
	<b>Term Credits</b>	<b>15.0</b>

### Winter

In this quarter, part-time students may take PA 546 Health Policy for Physician Assistance Practice and/or an elective in addition to the required courses. This will enable them to take the first summer quarter off. addition to the required courses.

PA 548	Principles of Medical Science I	2.0
PA 556	Clinical Medicine I	5.0
PA 551	Pharmacology and Therapeutics I	3.0
PA 559	Clinical Skills I	2.0
PA 547	Evidence Based Medicine for Physician Assistants	3.0
	<b>Term Credits</b>	<b>15.0</b>

### Spring

PA 549	Principles of Medical Science II	2.0
PA 557	Clinical Medicine II	5.0
PA 552	Pharmacology and Therapeutics II	2.0
PA 560	Clinical Skills II	2.0
PA 554	Biopsychosocial Issues in Patient Care	5.0
	<b>Term Credits</b>	<b>16.0</b>

### Summer

In this quarter, part-time students may take PA 546 Health Policy for Physician Assistant Practice plus an elective if they wish to attend during the summer quarter.

PA 550	Principles of Medical Science II/I	2.0
PA 558	Topics in Clinical Practice	5.0
PA 553	Pharmacology and Therapeutics III	2.0
PA 561	Clinical Skills III	4.0
PA 546	Health Policy for Physician Assistant Practice	2.0
	<b>Term Credits</b>	<b>15.0</b>

**Second Year****Fall**

The Clinical Phase (Full-time for all students, 5 quarters)

Rotation I	5.0
Rotation II	5.0
<b>Term Credits</b>	<b>10.0</b>

**Winter**

Rotation III	6.0
Rotation IV	5.0
Graduate Project I	3.0
<b>Term Credits</b>	<b>14.0</b>

**Spring**

Rotation V	6.0
Rotation VI	5.0
<b>Term Credits</b>	<b>11.0</b>

**Third Year****Summer**

PA 635	Primary Care Practicum I	10.0
PA 638	Graduate Project II	3.0-6.0
<b>Term Credits</b>		<b>13.0-16.0</b>

**Fourth Year****Fall**

PA 637	Primary Care Practicum II	10.0
<b>Term Credits</b>		<b>10.0</b>

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Total Credit: 119.0-122.0

**\*Clinical Year Rotation Courses**

The sequencing of the six clinical rotations will vary for individual students, but all students must take all six rotations.

PA 629	Medicine Rotation	5.0
PA 630	Pediatrics Rotation	5.0
PA 631	Obstetrics and Gynecology Rotation	5.0
PA 632	Psychiatry and Behavioral Health Rotation	5.0
PA 633	Surgery Rotation	5.0
PA 634	Emergency Medicine Rotation	5.0

**Admission Requirements**

The Drexel University Hahnemann Physician Assistant Program utilizes the Central Application Service for Physician Assistants (CASPA). All applicants must complete the CASPA application process no later than October 1st of the year prior to expected date of matriculation, including the receipt by CASPA of all transcripts, reference forms, and other supporting documentation such as foreign transcript evaluations and TOEFL scores. Applicants may not apply directly to the Drexel University Hahnemann Physician Assistant Program. Applications made directly to the Office of Enrollment Management (<http://www.drexel.edu/grad/programs/cnhp>) (Admissions) of Drexel University will not be processed.

Applications remaining incomplete with CASPA for any reason by the October 1st deadline will not be processed.

**Application Prerequisites**

- A minimum grade point average of 3.0 on a 4.0 grading scale from all colleges and universities attended is required for the following three (3) categories: non-science courses, natural science courses, and combined overall courses. Applications will not be reviewed unless the applicant has attained these minimum requirements at time of application.
- Meet the technical standards for admission, progression, and graduation from the Physician Assistant Program. Each applicant is expected to review completely the "Technical Standards for PA Program" PDF at the end of this page. Individuals unable to meet these technical standards, with or without reasonable accommodation, are counseled to pursue alternate careers.
- Official transcripts from all colleges and universities attended sent directly to CASPA.
- Non-United States-based educational institutional transcripts must be evaluated by an approved agency (see the listing of acceptable agencies on the CASPA website at [https://portal.caspaonline.org/faq/foreign\\_transcripts.htm](https://portal.caspaonline.org/faq/foreign_transcripts.htm)). Evaluation fees are the responsibility of the applicant. Evaluations must be sent directly to CASPA.
- Three completed reference forms with accompanying letters of recommendation attached and submitted as part of the official CASPA application. Preferred references are from individuals who have interacted with the applicant in a supervisory capacity or academic instructors who have personal knowledge of the applicant. Submission of references from friends, relatives, personal physicians, or instructors who do not possess a personal, supervisory knowledge of the applicants is discouraged.
- A personal statement recorded as part of the CASPA application.
- An applicant whose native language is not English must submit scores from the TOEFL iBT examination unless the applicant has graduated with a bachelor's degree from a U.S. college or university. The minimum required score for the iBT (Internet Based Testing) is 79 and a minimum score of 26 is required for the speaking component. Find more detailed information at <http://www.toeflgoanywhere.org/>. Scores must be submitted directly to CASPA.
- Meet the minimum prerequisite coursework as detailed in the "Admission Requirements and Process" PDF below.

A minimum of 500 hours of clearly documented volunteer/paid direct hands-on patient contact accrued by the time of application and recorded as part of the official CASPA application is strongly recommended. Ensure that all hours are accurately reported. Applicants may list the same position in multiple sections in order to account for multiple experiences (patient contact, related health care, research, shadowing, etc.) accrued in the same position as long as each hour is not reported in more than one experience category. Please review the "Patient Contact" PDF below for more information regarding acceptable forms of patient contact.

- Graduate Record Examination (GRE) scores are not required.
- The Physician Assistant Program does not grant advanced standing.

**Additional Information**

Applicants should review the information on Drexel's Physician Assistant Program Admission (<http://www.drexel.edu/physAsst/programs/physicianAssistant/admissions>) website for additional details.

# Physician Assistant Post-Professional Master's Program

## About the Program

*Master of Health Sciences (MHS): 45.0 quarter credits*

The Master of Health Science (MHS) degree is awarded by the University through the College of Nursing and Health Professions' Physician Assistant Post-Professional Master's program. This program builds upon knowledge and skills learned in the PA professional training programs in areas of health policy, evidence-based practice, and leadership. The program is available totally online, and it may be completed on a full-time or part-time basis.

The Physician Assistant Post-Professional Master's program provides graduate education courses as a basis for personalized, professional development within the student's selected area of study. The goal of the program is to enhance basic physician assistant skills and to mentor students in areas of study beyond what is offered by entry-level physician assistant programs. The individually selected study concentration is augmented by the expertise of seasoned faculty and the vast resources of the University.

Specifically, the Physician Assistant Post-Professional Master's program seeks to:

- Broaden the base and depth of analytical thinking by providing a foundation for scholarly inquiry
- Mentor physician assistants in personalized, professional development to enhance the P.A. profession, its members, and the communities they serve

## Additional Information

For more information about this program, contact the the Business Manager:

Denise Mielechowski  
PA Post-Professional Master's Program  
College of Nursing and Health Professions  
dmm58@drexel.edu

For more details, visit Drexel's College of Nursing and Health Professions Physician Assistant Post-Professional Master's (<http://www.drexel.edu/physAsst/programs/postProfPhysicianAssistant>) web page.

## Degree Requirements

All students in this program complete a total of 45.0 quarter credits for graduation. The program requires completion of 5 core courses (25.0 quarter credits). The cognate courses, 15.0 quarter credits, are courses in a student's area of interest, and 5.0 quarter credits for the capstone experience that deepens a student's understanding of chosen areas.

For the exceptional graduate student with significant professional credentials achieved as a physician assistant, preparation and presentation of the professional portfolio to a university-based multidisciplinary committee may substitute for all or portions of the credits required for the two graduate project courses.

### Required Core Courses

PA 581	Research Methods and Designs	5.0
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PA 582	Principles of Evidence-Based Practice	5.0
PA 583	Clinical Application of Epidemiology	5.0
PA 584	Health Policy	5.0
PA 585	Leadership and Stewardship	5.0

### Study Concentration Courses

Cognate 1 *		5.0
Cognate 2 *		5.0
Cognate 3 *		5.0
PA 698	Capstone Project	5.0
<b>Total Credits</b>		<b>45.0</b>

\* Students may select Cognate courses related to their areas of interest from one of the Study Tracks (<http://www.drexel.edu/catalog/masters/adv-pa.htm#Studytracks>) listed below.

## Study Tracks

### Clinical Practice

PA 641	Clinical Update	5.0
PA 642	Clinical Colloquium	5.0
or PA 640	Clinical Practicum	
PA 643	Clinical Practice Project Research	5.0
PA 698	Capstone Project	5.0

### Health Promotion

PA 661	Tenets of Health Promotion	5.0
PA 662	Health Promotion Materials	5.0
PA 663	Health Promotion Project Research	5.0
PA 698	Capstone Project	5.0

## Drexel e-Learning Certificate Options

Complementary and Integrative Therapies Certificate		12.0
PA 697	Independent Study	3.0
PA 698	Capstone Project	5.0
Leadership in Health Systems Management Certificate		12.0
PA 697	Independent Study	3.0
PA 698	Capstone Project	5.0
Healthcare Informatics Certificate		9.0
PA 697	Independent Study	6.0
PA 698	Capstone Project	5.0
Epidemiology and Biostatistics Certificate		12.0
PA 697	Independent Study	3.0
PA 698	Capstone Project	5.0
Toxicology and Industrial Hygiene Certificate		12.0
PA 697	Independent Study	3.0
PA 698	Capstone Project	5.0
Certificate of Study in Clinical Research *		15.0

\* PA 698 Capstone Project will be fulfilled with the completion of either CR 600S Designing the Clinical Trial or CR 609S Innovative Product Development.

**Alternate Pathway**

Cognate 1		5.0
Cognate 2		5.0
PA 695	Portfolio Preparation	1.0
PA 696	Portfolio Review	5.0-10.0
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Total Credits		16.0-21.0



## Post-Master's Certificate in Art Therapy

### About the Program

The new post-master's degree in art therapy will be available for enrollment starting in fall of the academic year 2013-2014.

This certificate program is designed for those individuals who hold a master's degree in a related mental health field such as counseling, social work, psychology, dance/movement therapy, music therapy, psychiatric nursing, or couple and family therapy. It consists of 57.0 quarter credits of art therapy course work and 1200 hours of supervised clinical art therapy practica and internship. Completion of the post-master's degree program in art therapy and fulfillment of post-graduation supervised clinical hours will allow the individual to be eligible for registration and certification as an art therapist by the Art Therapy Credentials Board.

### Admission Requirements

Candidates for the post-professional master's degree program in art therapy must meet the following admission requirements:

- Documentation of a 48.0 semester credit or 72.0 quarter credit master's degree completed from an accredited institution in the United States (or equivalent degree from an international institution) in a related field such as counseling, psychology, social work, dance/movement therapy, music therapy, psychiatric nursing and couple and family therapy.
- A 3.0 or above GPA in their graduate school studies as reflected in the submission of official transcript(s).
- An autobiography/personal statement, as described in the application materials.
- Documentation on the transcript of completion of coursework in the following content areas during their related master's degree education: (a) psychopathology; (b) human growth and development; (c) counseling and psychological theories; (d) cultural and social diversity; (e) assessment; and (f) research.
- Documentation of the completion of 18.0 semester or 27.0 quarter credits in studio art. The studio art courses should reflect experience and facility with multiple art media such as drawing, painting, clay, sculpture, photography, etc. The credits must be completed either prior to admission, which is preferable, or within 12 months of enrollment.
- Applicant interview with the faculty of the graduate art therapy program.
- Review of applicant's art portfolio during the interview. The portfolio should include art work reflecting proficiency with a range of two- and three-dimensional art media.
- Candidates with a graduate degree from a non-U.S. institution must submit their graduate academic records for evaluation by an agency such as World Education Service (WES). The Test of English as a Foreign Language (TOEFL) is required if English is a second language (minimum expected score: 600 paper/250 computer). International candidates should request instructions about all of these requirements with their admission materials and are advised to begin the admission process early.

## Certificate of Advanced Study in Complementary and Integrative Therapies

The Certificate of Advanced Study in Complementary and Integrative Therapies (CIT) program is designed to provide practicing healthcare professionals with an "evidence-based program" in complementary and integrative therapies. This knowledge will allow them to assess, guide and evaluate patient use and to integrate CIT into their professional practice. The program provides students with the cultural and theoretical basis for applying complementary and integrative therapies while focusing on the skills and techniques of specific therapies.

This program is applicable to a wide range of healthcare professionals including nurses, nurse practitioners, physician's assistants, creative arts therapists, couple and family therapists, women's health practitioners, members of oncology organizations, members of AHNA and more. Admission requires a minimum of a bachelor's degree from an accredited college or university.

The program content is congruent with the educational standards set forth by the American Association of Holistic Nurses (AHNA) and the Foundations in Clinical Aromatherapy course adheres to the educational standards (level one) set forth by the National Association for Holistic Aromatherapy (NAHA).

For additional information about this online certificate program visit the College of Nursing's Certificate of Advanced Study in Complementary and Integrative Therapies (<http://www.drexel.edu/healthSciences/programs/complementaryIntegrativeTherapies>) web page.

### Required Courses

CIT 501	Foundations of Phytotherapy	3.0
CIT 502	Foundations of Complementary and Integrative Therapies	3.0
CIT 503	Holistic Living For The Caregiver	3.0
Select one of the following:		3.0
CIT 511	Spirituality, Health and Healing	
CIT 512	Body Movement Therapies	
CIT 513	Yoga for Enlight Practitioner	
CIT 600	Clinical Aromatherapy	
CIT 601	Integration of Complementary and Integrative Therapies	
CIT 602	Women Integrative Health	
CIT 628	Special Topics in Complementary and Integrative Therapies	

Total Credits

12.0

## Post-Master's Certificate Program in Couple and Family Therapy

Drexel University offers a post-master's program leading to a certificate in couple and family therapy. The program is accredited by the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE) of the American Association for Marriage and Family Therapy (AAMFT). The post-master's certificate in couple and family therapy can be

expected to lead towards licensure as a Marriage and Family Therapist and AAMFT Clinical Membership.

## Clinical Practicum Experience

Full-time PMC students are enrolled in practicum for 4 consecutive quarters. Interns generally participate in one practicum site during their tenure in the PMC. All interns must complete a continuous 12-month calendar year at one practicum site prior to graduation. Interns will be expected to spend 20 hours per week working at the approved program practicum site. Scheduling of specific times will be negotiated by the intern and the on-site supervisor. The practicum schedule must not conflict with class schedule. Interns are expected to average 13-15 client contact hours per week in order to achieve the 500 clinical hour requirement by the end of the program. Case loads usually consist of more than 14 clients to ensure that the intern will average 13-15 client contact hours per week.

## Curriculum

The curriculum assists students in integrating theory and practice. Issues of race, ethnicity, culture, class, gender, sexual orientation, spirituality, religion, age, ability, power, and privilege are addressed throughout the program. Students are fully trained to assume clinical practice in couple and family therapy and are prepared for AAMFT Associate Membershi

### Required Courses

#### Theoretical Foundations

CFTP 501	Introduction to Family Therapy	4.0
CFTP 503	Historical and Sociocultural Influences	4.0

#### Clinical Practice

CFTP 505	Bowen Theory	4.0
CFTP 508	Structural Family Therapy	4.0
CFTP 517	Addictions in The Family	4.0

#### Individual Development and Family Relations

CFTP 520	Family Life Cycle	4.0
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#### Professional Identity and Ethics

CFTP 522	Legal and Ethical Implications in Couple and Family Therapy Practice	4.0
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#### Research

CFTP 525	Research in Couple and Family Therapy	4.0
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#### Required Additional Learning

CFTP 526	Person of the Therapist Experience I	2.0
CFTP 527	Person of the Therapist Experience II	2.0

### Electives

CFTP 506	Contextual Theory and Therapy	
CFTP 507	Collaborative Approaches	
CFTP 509	Couples Therapy	
CFTP 510	Sex Therapy	
CFTP 511	Object Relations Theory	
CFTP 512	Behavioral Models of Family Therapy	
CFTP 518	Medical Family Therapy	
CFTP 519	Family Violence	
CFTP 537	Nosology & Couple and Family Therapy Practice	

### Practicum

CFTP 530	Practicum I	2.0
CFTP 531	Practicum II	2.0
CFTP 532	Practicum III	2.0

CFTP 533	Practicum IV	1.0
Total Credits		43.0

## Post-Master's Certificate in Dance Movement Therapy

Dance/movement therapy is a body/mind-integrated approach to psychotherapy that uses expressive dance and movement processes to encourage the integration of emotional, cognitive, social, and physical functioning. Dance/movement therapy emphasizes the non-verbal realm of movement, touch, rhythm, and spatial interactions, as well as the congruence and connections between verbal and nonverbal modes of expression.

In this program, students build a strong foundation of theoretical knowledge and clinical application in dance/movement therapy (DMT). The program teaches and balances the art of DMT with the science that supports it. Using diagnostic knowledge, developmental and systems theories, and observational skills based in Laban Movement Analysis, our students learn to assess client functioning and formulate treatment goals. Using their expertise in the dance/movement modality and interactive, improvisational processes, students learn to address the patient's needs in both group and individual therapy formats. They may design creative group tasks for fostering interaction and cohesion, or to guide an individual through a personal conflict or challenge.

## Admissions

Admission requirements for the certificate program are similar to those for the MA program in Creative Arts, with the exception of standardized test scores.

## Curriculum

The post-master's certificate in dance/movement therapy consists of specialized coursework and supervised clinical experience. For those already holding a master's degree in a field related to dance/movement therapy (i.e., dance, dance education, another mental health discipline) this certificate program will help prepare the learner for the Dance Therapist Registered credential from the [American Dance Therapy Association](#) (ADTA) through the "Alternate Route."

Courses in the certificate program address categories delineated by the ADTA for Alternate Route Training in DMT:

- theory and practice in the field of dance and movement therapy
- movement observation and analysis

For the categories delineated by the ADTA in the areas of general mental health and anatomy/kinesiology, the Creative Arts in Therapy Program offers courses for additional fees.

Certificate courses can be taken on a full time basis over one year, or on a part time basis over two years. The certificate program offers the requisite fieldwork and Internship components on an optional basis for additional fees.

For additional information about admission to the program, visit the College of Nursing and Health Professions Creative Arts in Therapy (<http://www.drexel.edu/artsTherapies>) web site.

**Required Courses**

ARTS 501	Introduction to Creative Arts Therapy I	2.0
ARTS 502	Introduction to Creative Arts Therapy II	2.0
ARTS 503	Introduction to Creative Arts Therapy III	2.0
ARTS 552	Therapy Relationship Skills I	2.0
ARTS 553	Therapy Relationship Skills II	2.0
ARTS 554	Movement Observation I	2.0
ARTS 555	Laban Movement Analysis Lab	0.0
ARTS 556	Movement Observation II	2.0
ARTS 557	Dance/Movement Therapy Theory and Practice - Children I	2.0
ARTS 558	Dance/Movement Therapy Theory and Practice - Children II	2.0
ARTS 559	Introduction to Dance/Movement Therapy History and Literature	1.0
ARTS 563	Movement Perspectives in Human Development	2.0
ARTS 564	Group Dynamics and Therapy II: Dance/Movement Therapy	2.0
ARTS 651	Medical Dance/Movement Therapy	1.0
ARTS 654	Dance/Movement Therapy Theory and Practice III: Adults	2.0
ARTS 655	Multicultural Perspectives in Therapy II: Dance/Movement Therapy	2.0
ARTS 656	Mental Health Applications of Movement Analysis I	2.0
ARTS 657	Mental Health Applications of Movement Analysis II	2.0
ARTS 661	Family Dance/Movement Therapy: A Systems Approach	2.0
ARTS 662	Advanced Group Dance/Movement Therapy Skills I	2.0
ARTS 663	Advanced Group Dance/Movement Therapy Skills II	2.0
ARTS 699	Independent Study in Creative Arts Therapy	1.0-4.0
<b>Recommended Electives</b>		
ARTS 610	Clinical Internship I	
ARTS 611	Clinical Internship II	
ARTS 612	Clinical Internship III	
ARTS 652	The Kestenberg Movement Profile	
ARTS 658	Dance/Movement Therapy Advanced Group Supervision I	
ARTS 659	Dance/Movement Therapy Advanced Group Supervision II	
ARTS 660	Dance/Movement Therapy Advanced Group Supervision III	
Total Credits		40.0

## Certificate in Forensic Trends and Issues in Contemporary Healthcare

The certificate program examines contemporary trends and issues related to the wide range of interpersonal violence, crime and sudden violent death that may be encountered in a variety of healthcare settings. Theoretical tenets, methods for assessment and related implications for intervention and/or referral will be examined from a multifaceted

perspective—including that of the offender, crime victim, families, and the healthcare community-at-large.

**Program Goals**

- Examine social attitudes and perceptions toward victimization and offending behavior;
- Identify the psychological, physical and legal aspects of victimization;
- Assess victim trauma and identify appropriate interventions for victimized clients;
- Assess the motivational intent and behavior patterns of offenders who commit aggressive crimes;
- Analyze institutional approaches and subsequent response patterns to victims and offenders in a variety of settings (e.g., inpatient, outpatient, primary care settings, academic, etc);
- Assess ethical dimensions of healthcare issues relative to the role and scope of practice and healthcare providers;
- Examine healthcare policy assessment, development and/or modification to enhance health promotion of offenders and victims across the lifespan.

**Admission**

Admission to this program requires completion of a BS degree. The program is intended for providers and educators in the healthcare sciences, as well as professionals who have direct contact with victims and/or offenders across disciplines and areas of practice. The program is open to practitioners, graduate student and healthcare educators across the continuum of specialties and agencies.

For more information, visit Drexel's College of Nursing and Health Profession's Certificates (<http://www.drexel.edu/cnhp/academics/certificates>) website.

**Requirements**

NURS 519	Forensic Science Foundations	3.0
NURS 524	Analysis and Application of Forensic Trends and Issues	3.0
NURS 528	Victimology – Contemporary Trend	3.0
NURS 533	Forensic Mental Health	3.0
Total Credits		12.0

## Certificate in Hand and Upper Quarter Rehabilitation

The Certificate in Hand and Upper Quarter Rehabilitation is designed for practicing clinicians in physical therapy and occupational therapy who wish to gain advanced understanding of the upper quarter, including the cervical spine, shoulder, elbow, wrist, and hand. This program consists of four courses offered in an online and weekend format.

The curriculum is based on the most recent hand therapy practice analysis conducted by the Hand Therapy Certification Commission (HTCC). The HTCC oversees the certification process for qualifying occupational and physical therapists as "certified hand therapists" or CHTs. This Certificate of Advanced Practice in Hand and Upper Quarter Rehabilitation is recognized by HTCC as a resource to assist with preparation for the CHT examination.

After successfully completing the four required courses, students receive a post-professional certificate of completion.

#### Foundations of Practice Requirements

PTRS 767	Foundations in Hand Therapy	4.0
PTRS 768	Upper Quarter Joint Pathology	4.0
PTRS 769	Nerve Injuries of the Upper Quarter	4.0
PTRS 770	Diseases That Affect the Hand	4.0
Total Credits		16.0

For more information, visit the Department of Physical Therapy and Rehabilitation Sciences (<http://www.drexel.edu/physicalTherapy/programs/handRehab>) web page.

## Certificate of Advanced Study in Holistic Hospice and Palliative Care

Clinical studies have found that complementary and integrative therapies (CIT) are associated with abatement of symptoms, including anxiety and pain, and the improvement in mood and sense of control. The use of complementary and integrative therapies is relatively common in end-of-life care, with at least one half of hospices offering CIT and approximately one third to one half of hospice patients report having used a form of CIT as part of their care. This program will provide practitioners the tools needed to treat the holistic spectrum of the dying patient and their family, while integrating an effective and efficient delivery of care.

Drexel's new certificate of advanced study in holistic hospice and palliative care program consists of 4 courses, all delivered in an online format. Courses may be taken in any sequence, which allows a student to begin the certificate in any quarter. The certificate is designed to attract a wide range of health care students and professionals from a variety of disciplines who are interested in a delivery of care and services that not only focus on the traditional aspects of end-of-life care, but also integrate complementary and integrative therapies modalities.

This program will go into effect academic year 2013-2014.

## Certificate of Advanced Study in Integrative Addiction Therapies

This new certificate program, the first of its kind, will be offered for enrollment in fall 2013.

Substance use disorders are among this country's most ubiquitous health and social issues. The use of complementary and integrative therapies (CIT) within the scope of conventional healthcare practice for the treatment of substance use disorder will provide practitioners the tools needed to treat the substance use disorder patient (and their family) within the holistic spectrum, healing body, mind and spirit.

A holistic, integrative treatment program for addiction requires combining biochemical nutritional treatment for the brain (nutrition neuroscience) along with all other aspects (bio, psycho, social, economic), including counseling and education to support lifestyle change.

This certificate program has been designed for the wide range of health care students and professionals from a variety of disciplines who are interested in a delivery of care and services that focus on integrating

complementary and integrative therapies into their conventionally based healthcare backgrounds, offering an innovative, caring and holistic transition to an underserved population. The program will be offered in an online format, thereby making it more accessible to working health care practitioners.

## Certificate Program in Medical Family Therapy

This certificate program is offered to those individuals who have earned a master's degree and seek further education. The program, offered online, is designed to introduce a variety of currently practicing health care professionals to the ways acute and chronic medical illnesses and conditions influence and are influenced by psychosocial, relational, and family conditions and environments. Additionally, couple and family therapists and other professionals trained in the subspecialty of medical family therapy (or collaborative healthcare) will learn to work cooperatively to bridge gaps in the health care systems, and provide comprehensive and culturally congruent family focused services.

For additional information about the Certificate in Medical Family Therapy, students should visit the Online Certificate Program in Medical Family Therapy (<http://www.drexel.com/online-degrees/nursing-degrees/cert-pm-mft>) page.

#### Required Courses

MFTP 518	Medical Family Therapy	3.0
MFTP 537	Multicultural & Family Systems Approach to Healthcare	4.0
MFTP 538	Issues and Trends in Health Policy for Families	3.0
Select one of the following:		4.0
CFTP 500	Introduction to Systems Theory	
CFTP 501	Introduction to Family Therapy	
CFTP 503	Historical and Sociocultural Influences	
CFTP 505	Bowen Theory	
CFTP 508	Structural Family Therapy	
CFTP 510	Sex Therapy	
CFTP 517	Addictions in The Family	
CFTP 519	Family Violence	
CFTP 520	Family Life Cycle	
CFTP 537	Nosology & Couple and Family Therapy Practice	
Total Credits		14.0

## Post-Master's Certificate in Music Therapy

The post-master's certificate in music therapy is designed to help students develop advanced music therapy clinical skills in an academic health center setting. The program is the only music therapy training model housed in an academic health center. It is unique in that faculty members include mental health and medical professionals who assist students in integrating music therapy with current developmental, mental health, and medical practices.

Didactic and clinical aspects are balanced to provide a foundation of theoretical knowledge and practical application. The curriculum integrates knowledge of music therapy with current theoretical approaches to



assessment and treatment. Experiential core and music therapy modality courses are designed to help students develop the use of the self within the music therapy relationship.

## About the certificate

The post-master's certificate in music therapy consists is a 52.0 quarter credit certificate program designed to meet the needs of qualified individuals who seek to become eligible to sit for the Board Certification Exam from the [Certification Board for Music Therapists](#) (CBMT). The certificate program is designed for those with a master's degree in another clinical mental health specialty who wish to add a specialization in music therapy. Each of the following courses addresses one or more competency areas delineated by the American Music Therapy Association. All are taught at the graduate level.

## Admissions

Admission requirements for the certificate program are similar to those for the MA program in Creative Arts, with the exception of standardized test scores. For additional information about admission to the program, visit the College of Nursing and Health Professions' Creative Arts in Therapy (<http://www.drexel.edu/artsTherapies>) web site.

### Required Courses

ARTS 501	Introduction to Creative Arts Therapy I	2.0
ARTS 502	Introduction to Creative Arts Therapy II	2.0
ARTS 503	Introduction to Creative Arts Therapy III	2.0
ARTS 510	Clinical Practicum I: Observation	1.0
ARTS 511	Clinical Practicum II	1.0
ARTS 512	Clinical Practicum III	1.0
ARTS 573	Clinical Musical Improvisation I	2.0
ARTS 574	Clinical Musical Improvisation II	2.0
ARTS 575	Theories in Music Therapy I	2.0
ARTS 577	Music Therapy Skills I	2.0
ARTS 578	Music Therapy Skills II: Child Skills	2.0
ARTS 579	Music Therapy Skills III: Technological Applications	2.0
ARTS 580	Psychology of Music	2.0
ARTS 581	Music Therapy Group Supervision I	1.0
ARTS 582	Music Therapy Group Supervision II	1.0
ARTS 583	Music Therapy Group Supervision III	1.0
ARTS 610	Clinical Internship I	3.0
ARTS 611	Clinical Internship II	3.0
ARTS 612	Clinical Internship III	3.0
ARTS 670	Advanced Music Therapy Skills I	2.0
ARTS 671	Advanced Music Therapy Skills II	2.0
ARTS 672	Multicultural Perspectives in Music Therapy	2.0
ARTS 673	Advanced Music Therapy Group Supervision I	1.0
ARTS 674	Advanced Music Therapy Group Supervision II	1.0
ARTS 675	Advanced Music Therapy Group Supervision III	1.0
ARTS 676	Theories in Music Therapy II	2.0
ARTS 677	Advanced Music Therapy Skills III - Group	2.0
ARTS 678	Clinical Internship Laboratory: Musical Analysis	1.0
NEUR 534	Neuroscience	3.0
<b>Total Credits</b>		<b>52.0</b>

## Post-Master's Certificate in Nurse Anesthesia

The Post Master's Certificate (PMC) in Nurse Anesthesia is a 28 month 68.0 quarter credit full-time program. The program offers 3.0 theoretical nursing and research credits, 9.0 quarter credit basic science component, 31.0 quarter credits of a didactic anesthesia component and a 25.0 credits in a clinical component. Upon successful completion program outcomes student is awarded a post master's certificate in nurse anesthesia and is eligible to take the national certification examination offered by the NBCRNA - Council on Certification of Nurse Anesthetists.

The nurse anesthesia program is accredited by the: Council on Accreditation of Nurse Anesthesia Educational Programs, 222 S. Prospect Ave, Suite 304, Park Ridge, IL 60068, 847-692-7050.

### Admission Requirements

This certificate program is offered to those individuals who have earned a master's degree in nursing and seek further preparation in nurse anesthesia. Transcripts are reviewed and course work is determined on an individual basis. Contact the College of Nursing for more specific admission requirements (<http://www.drexel.edu/gradnursing/msn/nurseAnesthesia/admissions>).

### Curriculum/Requirements

NURS 503	Basic Principles of Nurse Anesthesia	3.0
NURS 504	Overview of Nurse Anesthesia	3.0
NURS 505	Chemistry and Physics	3.0
NURS 507	Nurse Anesthesia Pharmacology I	3.0
NURS 508	Nurse Anesthesia Clinical Practicum I	1.0
NURS 510	Advanced Principles of Nurse Anesthesia I	3.0
NURS 511	Nurse Anesthesia Pharmacology II	3.0
NURS 512	Nurse Anesthesia Clinical Practicum II	1.0
NURS 515	Advanced Principles of Nurse Anesthesia II	3.0
NURS 516	Nurse Anesthesia Clinical Practicum III	2.0
NURS 517	Nurse Anesthesia Clinical Practicum IV	3.0
NURS 518	Advanced Principles of Nurse Anesthesia III	3.0
NURS 521	Advanced Pathophysiology I	3.0
NURS 522	Advanced Pathophysiology II	3.0
NURS 523	Advanced Pathophysiology III	3.0
NURS 530	Anesthesia Seminar	1.0
NURS 526	Information, Innovation & Technology in Advanced Nursing Practice	3.0
NURS 659	Advanced Principles of Nurse Anesthesia IV	3.0
NURS 683	Nurse Anesthesia Clinical Practicum V	3.0
NURS 684	Nurse Anesthesia Clinical Practicum VI	3.0
NURS 687	Clinical Residency I	6.0
NURS 688	Clinical Correlative Seminars	3.0
NURS 689	Clinical Residency II	6.0
<b>Total Credits</b>		<b>68.0</b>

## Certificate in Pediatric Rehabilitation

This program is for licensed physical and occupational therapists who work or aspire to work in early intervention, school-based therapy or other pediatric services and who seek to develop expertise in this field.

Graduates of the program will be prepared to enhance activity, participation and measurable outcomes for children and their families through the application of research, theory, and emergent knowledge to practice. Issues across the spectrum of care, for ages from birth to 21, are addressed and practitioners have the opportunity to enhance their comprehension of family and client-centered practice in a diversity of settings. The program incorporates philosophies of practice, issues of advanced clinical decision making, intervention and service delivery approaches, advocacy, and clinical leadership.

Students can tailor their studies and assignments to meet personal needs. Individualized assignments allow them to apply key themes and issues to practice. The program also offers physical therapists the opportunity and resources to prepare for specialty certification through the American Physical Therapy Association.

After successfully completing the required credits, students receive a post-professional certificate of completion. The credits may be transferred into degree programs within Physical Therapy and Rehabilitation Sciences.

### Requirements

Select 12.0 credits from the following:	12.0
PTRS 740	Issues in Pediatric Health & Rehabilitation
PTRS 760	Pediatric Decision Making
PTRS 761	Pediatric Clinical Application
PTRS 772	Selected Topics in Pediatrics
PTRS 780	Foundations of School-based Practice
PTRS 781	Advanced Competencies in School-based Practice

For more information, visit the College's Certificate in Pediatric Rehabilitation ([http://www.drexel.edu/cnhp/rehab\\_sciences/default.asp](http://www.drexel.edu/cnhp/rehab_sciences/default.asp)) web page.

This program is for licensed physical and occupational therapists who work or aspire to work in early intervention, school-based therapy or other pediatric services and who seek to develop expertise in this field.

## Certificate in Clinicals Trials Research

The certificate program is designed for individuals who have earned an undergraduate degree in nursing and seek further preparation in clinical trials research.

### Required Courses

NURS 582	Foundation of Good Clinical Practice in Clinical Trials Mngmt	3.0
NURS 583	Operational Leadership in Clinical Trials Management	3.0
NURS 584	Current Topics in Clinical Trials	3.0
NURS 585	Clinical Trials Research Practicum	5.0
Total Credits		14.0

## Certificate in Nursing Education & Faculty Role

### Certificate in Nursing Education Faculty Role (I)

The Certificate in Nursing Education & Faculty Role is offered to those individuals who have earned a bachelor's degree in nursing and seek further education. This graduate certificate program provides a four-course group of classes that focuses on the knowledge and skills required for healthcare provider education roles. Courses are from the MSN in Nursing Education & Faculty Role curriculum.

This is a graduate-level certification program. Upon completion of this certificate program, the student will have 15.0 graduate credits from an NLN/CCNE approved Master's in Nursing Program. These credits can be used towards an MSN at Drexel or any other university.

### Required Courses

NURS 597	Clinical & Didactic Teaching Methods	3.0
NURS 598	Teaching Critical Thinking & Clinical Decision-Making in Nursing	3.0
NURS 599	Curriculum Design in Nursing Education	3.0
NURS 600	Measurement & Evaluation in Nursing Education	3.0
Select one of the following:		3.0
NURS 613	The Role and Responsibility of the Nursing Professor	
NURS 614	Technology for Nursing Education & Practice	
Total Credits		15.0

### Certificate in Nursing Education Faculty Role (II)

This Certificate in Nursing Education & Faculty Role is offered to those individuals who have already earned a master's degree in nursing and seek further preparation in nursing education. The program can be completed through part-time study. Transcripts will be reviewed and course work will be determined on an individual basis.

### Required Courses

NURS 597	Clinical & Didactic Teaching Methods	3.0
NURS 598	Teaching Critical Thinking & Clinical Decision-Making in Nursing	3.0
NURS 599	Curriculum Design in Nursing Education	3.0
NURS 600	Measurement & Evaluation in Nursing Education	3.0
NURS 626	Masters Nursing Education Practicum I	3.0
NURS 627	Masters Nursing Education Practicum II	3.0
NURS 669	Professional Seminar for Advance Practice Nurses	1.0
Select one of the following:		3.0
NURS 613	The Role and Responsibility of the Nursing Professor	
NURS 614	Technology for Nursing Education & Practice	
Total Credits		22.0

## Certificate in Innovation and Intra/Entrepreneurship in Advanced Nursing Practice

### Innovation and Intra/Entrepreneurship in Advanced Nursing Certificate (I)

12.0 quarter credits

This Innovation and Intra/Entrepreneurship in Advanced Nursing Practice Certificate program is for individuals who want to understand the theories of innovation, examine some successful and failed innovations, as well as learn what it takes to be a successful intra/entrepreneur.

Admission to this program requires a bachelor's degree from an accredited college or university.

The certificate requires students to take the three primary courses in Innovation and Intra/Entrepreneurship. Students also complete the first Capstone course, designing an Innovation Project proposal.

### Required Courses

NURS 586	Innovation in Advanced Nursing Practice: Theory and Application	3.0
NURS 587	Case Studies in Intra/Entrepreneurship and Innovation in Nursing	3.0
NURS 588	The Nurse as Intra/Entrepreneur and Consultant	3.0
NURS 636	Capstone Project I	3.0
Total Credits		12.0

### Innovation and Intra/Entrepreneurship in Advanced Nursing Certificate (II)

19.0 quarter credits

This certificate is offered to those individuals who have already earned a master's degree in nursing and seek further preparation in another area of nursing. The program can be completed through part-time study. Transcripts will be reviewed and course work will be determined on an individual basis.

### Program of Study

The program is designed for students who wish to have guided experience in the implementation and evaluation of a proposed innovation and to actually complete a final work product. At the conclusion of this program, students complete an "Innovation Project. "

#### Required Courses

NURS 586	Innovation in Advanced Nursing Practice: Theory and Application	3.0
NURS 587	Case Studies in Intra/Entrepreneurship and Innovation in Nursing	3.0
NURS 588	The Nurse as Intra/Entrepreneur and Consultant	3.0
NURS 636	Capstone Project I	3.0
NURS 637	Capstone Project II	3.0
NURS 638	Capstone Project III	3.0
NURS 669	Professional Seminar for Advance Practice Nurses	1.0
Total Credits		19.0

## Certificate in Nursing Leadership in Health Systems Management

This certificate program for registered nurses focuses on development of a leadership style and skills set essential for individuals in or seeking administrative roles, including: fiscal and organizational management, strategic planning, integrated quality outcomes measurement, organizational structures, marketing, and management of human resources within organizations. The program provides the student with information and strategies to problem solve, make decisions, resolve conflict and operationalize the mission and goals of the healthcare delivery organization.

#### Required Courses

NURS 557	Leadership and Stewardship in the Health Professions	3.0
NURS 558	Economics of Healthcare Management & Policy	3.0
NURS 559	Operations Management in Contemporary Healthcare Organizations	3.0
Select one of the following:		3.0
NURS 563	Building and Leading High Performance Healthcare Organizations	
NURS 564	The Business of Healthcare	
NURS 567	Strategic Management: Power, Politics and Influence in Healthcare Systems	
Total Credits		12.0

## Certificate in Adult Acute Care Nurse Practitioner

24.0 quarter credits

This certificate is offered to those individuals who have earned a master's degree in nursing and seek further preparation in another area of nursing. Transcripts will be reviewed and course work will be determined on an individual basis. Students meet on campus for a mandatory on-campus Residency at the beginning of the clinical practicum rotations and at the end of the clinical practicum rotations.

#### Program of Study

All post-master's students in Nurse Practitioner Tracks must transfer in three credits (quarter or semester) of master's-level Advanced Pathophysiology or Advanced Physiology, Advanced Pharmacology, and Advanced Physical Assessment. If these courses are not transferred in they must be taken at Drexel prior to the first clinical course. Students should check with the MSN Program Coordinator for the exact schedule. Acute Care Pharmacology is required prior to beginning the clinical courses.

#### Required Courses

NURS 554	Pharmacology for Adult-Gerontology Acute Care Nurse Practitioners	3.0
NURS 570	Adult-Gerontology Acute Care Nurse Practitioner I: Intro to adult-gerontology acute care medicine	5.0
NURS 571	Adult-Gerontology Acute Care NP II Mgmt/Care of Patients in Acute/Critical Care Medical Settings	5.0
NURS 572	Adult-Gerontology Acute Care NP III-Management and Care of Patients in Acute Surgical Settings	5.0
NURS 573	Adult-Gerontology Acute Care NP IV-Management of Care of Patients in Critical Care Settings	5.0
NURS 664	Professional Issues for Nurse Practitioners	1.0
Total Credits		24.0

## Certificate in Adult Psychiatric Mental Health Nurse Practitioner

24.0 quarter credits

This certificate is offered to those individuals who have earned a master's degree in nursing and seek further preparation in another area of nursing. Transcripts will be reviewed and course work will be determined on an individual basis. Students meet on campus for a mandatory on-campus Residency at the beginning of the clinical practicum rotations and at the end of the clinical practicum rotations.

#### Program of Study

All post-master's students in Nurse Practitioner Tracks must transfer in three credits (quarter or semester) of master's-level Advanced Pathophysiology or Advanced Physiology, Advanced Pharmacology, and Advanced Physical Assessment. If these courses are not transferred in they must be taken at Drexel prior to the first clinical course. Students should check with the MSN Program Coordinator for the exact schedule. Psychopharmacology is required prior to beginning the clinical courses.

#### Required Courses

NURS 555	Psychopharmacology	3.0
NURS 592	PMHNP1: Theoretical Foundations of Psychiatric Mental Health	5.0
NURS 593	Advanced Mental Health Nurse Practitioner Theoretical Foundations and Psychopathology II	5.0
NURS 594	Adv Mental Health NP Treatment Modalities for Diverse Populations Across the Life Span	5.0
NURS 595	PMHNP IV: Adv Mental Health NP Mgmt and Care of Clients in Diverse Populations Across the Lifespan	5.0



NURS 664	Professional Issues for Nurse Practitioners	1.0
Total Credits		24.0

## Post-Bachelor's Certificate in Family Nurse Practitioner

This certificate is offered to those individuals who have earned a master's degree in nursing and seek further preparation in another area of nursing. Transcripts will be reviewed and course work will be determined on an individual basis. Students meet on campus for a mandatory on-campus Residency at the beginning of the clinical practicum rotations and at the end of the clinical practicum rotations.

### Program of Study

All post-master's students in Nurse Practitioner Tracks must transfer in three credits (quarter or semester) of master's-level Advanced Pathophysiology (or Advanced Physiology), and Advanced Pharmacology. If these courses are not transferred in they must be taken at Drexel prior to the first clinical course. Pharmacology for Family Nurse Practitioners is required prior to beginning the clinical courses. Students should check with the program coordinator for the exact schedule.

### Required Courses

NURS 556	Pharmacology for Family Nurse Practitioners	3.0
NURS 575	Family Nurse Practitioner I: Primary Care of Infants, Children & Adolescents	5.0
NURS 576	Family Nurse Practitioner I: Primary Care of Adults	5.0
NURS 578	Family Nurse Practitioner III: Primary Care of Women	5.0
NURS 577	Family Nurse Practitioner IV: Primary Geriatric Care	5.0
NURS 579	Family Nurse Practitioner V: Integrative Practicum in Family Practice	4.0
NURS 664	Professional Issues for Nurse Practitioners	1.0

### Additional Requirements

These may be transferred courses.

NURS 548	Advanced Pathophysiology	3.0
NURS 549	Advanced Pharmacology	3.0
Total Credits		34.0

Physical Assessment. If these courses are not transferred in they must be taken at Drexel prior to the first clinical course. Students should check with the MSN Program Coordinator for the exact schedule. Pediatric Pharmacology is required prior to beginning the clinical courses.

### Required Courses

NURS 642	PNPI: Wellness, Health Promotion & Disease Prevention in Infants, Children & Adolescents	5.0
NURS 548	Advanced Pathophysiology	3.0
NURS 549	Advanced Pharmacology	3.0
NURS 643	PNPII: Episodic Care of Infants, Children & Adolescents	5.0
NURS 644	PNPIII: Primary Care Issues of Children with Chronic Illness	5.0
NURS 645	PNPIV: Primary Care of Adolescents	5.0
NURS 646	Pharmacology for the Pediatric Nurse Practitioner	3.0
NURS 664	Professional Issues for Nurse Practitioners	1.0
Total Credits		30.0

## Certificate in Pediatric Primary Care Practitioner

30.0 quarter credits

This certificate is offered to those individuals who have earned a master's degree in nursing and seek further preparation in another area of nursing. Transcripts will be reviewed and course work will be determined on an individual basis. Students meet on campus for a mandatory on-campus Residency at the beginning of the clinical practicum rotations and at the end of the clinical practicum rotations.

### Program of Study

All students in Nurse Practitioner Certificate Tracks must transfer in three credits (quarter or semester) of master's-level Advanced Pathophysiology or Advanced Physiology, Advanced Pharmacology, and Advanced

# Undergraduate Course Descriptions

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## Anatomy

### Courses

#### **ANAT 101 Anatomy & Physiology I 5.0 Credits**

This course is a general study of the structures and physiology of the human body. Fundamental concepts of microscopic tissue structure, gross structures of organs and body system organization are taught. The course consists of both lecture and lab material. The lecture portion deals with the general principles. In the lab, the student participates with practical examination of microscopic sections, tissues and organs, and the anatomical layout of human cadavers. The cell, tissues and musculoskeletal system will be covered in this course, as well as muscle and nerve physiology.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

#### **ANAT 102 Anatomy & Physiology II 5.0 Credits**

This course is a continuation of ANAT 101. This course is a general study of the structures & physiology of the human body. Fundamental concepts of microscopic tissue structure, gross structures of organs and body system organization are taught. The course consists of both lab and lecture material. The lecture deals with the general principles. In the lab, the student participates with practical examination of microscopic sections, tissues and organs, and the anatomical layout of various animal cadavers. The nervous, endocrine and digestive system will be covered in this course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ANAT 101 [Min Grade: C]

#### **ANAT 103 Anatomy & Physiology III 5.0 Credits**

This course is a continuation of ANAT 101 & 102. This course is a general study of the structures and physiology of the human body. Fundamental concepts of microscopic tissue structure, gross structures of organs and body system organization are taught. The course consists of both lab and lecture material. The lecture deals with the general principles. While in the lab, the student participates with practical examination of microscopic sections, tissues, organs and the anatomical layout of various animal cadavers. The cardiovascular, lymphatic, respiratory, urinary and reproductive systems will be covered.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ANAT 102 [Min Grade: C]

#### **ANAT 202 Sectional Anatomy 3.0 Credits**

This course is designed to bridge the gap between Anatomy & Physiology and Advanced Anatomy. Anatomy of the head, neck, thorax, abdomen and pelvis is reviewed. Relationships of surface and internal structures from different bodily systems are emphasized. The analysis is supported by illustrations, CT scans, and MRI images.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ANAT 103 [Min Grade: C]

#### **ANAT 420 Advanced Anatomy I 4.0 Credits**

This course introduces the fundamentals of gross Anatomy. Emphasis is placed on the regional study of the head, neck, back and upper extremity. Special attention is directed to study of the brain and spinal cord. Laboratory materials include human cadavers, models, radiographs, CT scans, MRI images and relevant web sites.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ANAT 103 [Min Grade: C]

#### **ANAT 421 Advanced Anatomy II 4.0 Credits**

This course is a continuation of ANAT 420. Emphasis is placed on the regional study of the thorax, abdomen, pelvis and lower extremity. Laboratory material include human cadavers, models, radiographs, CT scans, MRI images and relevant web sites.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ANAT 420 [Min Grade: C]

## Behavioral & Addictions Couns

### Courses

#### **BACS 100 Life Span Human Development 3.0 Credits**

This course introduces students to the physical, cognitive and psychological aspects of human development from birth through advanced old age. Topics include: environmental influences, perception, gender roles and sexuality, spirituality, motivation, life styles, and psychiatric disorders.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

#### **BACS 200 Foundation of Behavioral Health Care 3.0 Credits**

This course introduces the students to the historical and current contexts of program components that comprise community-based behavioral health systems. Topics include: work-force roles; regulatory policies and program practices; federal, state, and county program organizations; advocacy issues; and managed care systems issues.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

#### **BACS 210 Behavioral Disorders 3.0 Credits**

Clinical characteristics and diagnostic features of major psychiatric disorders are reviewed within the contexts of community-based treatment approaches. Topics include: etiological models, differential symptoms, diagnostic/functional assessment and treatment interventions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

#### **BACS 220 Counseling Theory and Practice 3.0 Credits**

Surveys major counseling theories with emphasis upon study and practice of basic counseling competencies. Topics include: relationship building, effective communication and helping skills, common stages in counseling process, and helping skills with special populations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 230 Genetics and Mental Health 3.0 Credits**

This course explores genetic concepts and principles as they pertain to human variation in behavioral and general health disorders. Students obtain a firm grounding in the basic science and the tools used by researchers to explore the contribution of the genes (and their essential counterpart, the environment) to behavior.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 232 Ethics and Professional Responsibility 3.0 Credits**

This course discusses the philosophical, legal and moral responsibilities of professionals in behavioral health and human services setting with a strong emphasis on counseling relationships. A wide array of ethical issues are presented and discussed. Moral dilemmas comprised of competing moral obligations are examined.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 234 Introduction to Addictive Disorders 3.0 Credits**

This course introduces the nature of addictions and the impairment in individuals who suffer from addictions. It includes a review of theories on substance disorders and approaches to identification, prevention and treatment. Topics include: historical perspectives, diagnosis, types of addictive behaviors, treatment, and current research.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 236 Psychiatric Rehabilitation Principles and Practices 3.0 Credits**

This is an introductory survey courses which acquaints the student with the principles and practices of Psychiatric (or Psychosocial) Rehabilitation. It provides the student with an understanding of the manner in which Psychiatric Rehabilitation approaches, understands and assists the person with serious and persistent mental illness.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 250 Behavioral Health Informatics 3.0 Credits**

This course introduces students to the uses and importance of computer technologies in transforming behavioral health care practice. Course sections cover both the science and practice applications of emerging technologies from psychotherapies, to medication management, and to quality care management.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 255 Multicultural Counseling 3.0 Credits**

This course provides didactic information for use in the development of awareness and skills necessary for effective therapeutic relationships with clients of diverse cultural backgrounds.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 301 Group Counseling I 3.0 Credits**

This course is an introduction to the theoretical base and skills used in conducting group counseling. Included are theories of group work, facilitation techniques, types and styles of groups and models of group functioning. Students participate in a group as a group member and to act as a group co-leader in order to practice leadership skills.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 304 Cognitive and Behavioral Counseling I 3.0 Credits**

This course familiarizes the student with key cognitive-behavioral models used in therapy today. Differences and similarities are explored. Students are exposed to the philosophical models and the related techniques stemming from these models. Skills on how to conceptualize and work with a client are taught.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 310 Recovery and Relapse Prevention 3.0 Credits**

The goal of recovery and relapse preventions is the development personal strategies that will help the person restructure their life in a way that will prevent a return to active addiction. This course helps define the role of professional counselor in understanding the dynamic of recovery from a clinical perspective.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 312 Case Management Methods 3.0 Credits**

This course is an in-depth explorations of the definitions and methodologies of case management services. The course is designed to provide students with the most up to date research and clinical applications of services management in the practice of addictions counseling.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 320 Crisis and Brief Intervention 3.0 Credits**

This course introduces student to the fundamental concepts, theories, strategies, and skills needed to understand and conduct effective crisis and brief intervention counseling. Particular attention is given to several types of crises commonly encountered in working within settings serving people who have long-term disabling psychiatric disorders.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 325 Psychopharmacology for Counselors 3.0 Credits**

This course focuses on the mechanisms of action of psychiatric medications, and uses and limitations of psychopharmacology in the overall management of serious mental illness. The student will learn to work collaboratively with the consumer, and others, and the importance of integrating the use of medications with psychiatric rehabilitation approaches.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 350 Child Psychopathology 3.0 Credits**

This course provides an understanding of childhood-onset behavioral, emotional, developmental, and learning disorders. Review of theories on the development of child psychopathology and approaches to identification, prevention and treatment of disorders. Students learn about assessment and ethical treatment of children.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 360 Preventing Substance Abuse 3.0 Credits**

This course provides a comprehensive overview of prevention theories and prevention programming applications as regards substance use disorders. Course topics include: theories and models basic to prevention, science-based prevention strategies and model programs, strategic planning and outcome evaluation.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 367 Advanced Counseling Intervention 3.0 Credits**

This course introduces students to current best practices when counseling clients with behavioral health disorders. Students are provided with training in the advanced counseling skills of Motivational Interviewing and Solution-Focused Therapy as well as introduced to experimental approaches to counseling this population.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** BACS 220 [Min Grade: C]

**BACS 368 Addictions Counseling with Special Populations 3.0 Credits**

This course involves the student in examinations of challenges for addictions counselors in working with frequently underserved populations represented by adolescents and elderly persons. Effective approaches to assessing and treating both youthful and older adult individuals with addiction disorders are explored and defined.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 370 Problem Gambling Interventions 3.0 Credits**

This course covers basic areas of treatment knowledge and counseling skills necessary to effectively diagnose and assess the pathological gambler and define the necessary components for effective counseling interventions with problem gamblers.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 390 Special Topics in Mental Health 3.0 Credits**

This course covers topics of particular interest to students in health sciences. In different terms, a variety of topics will be presented to the students. May be repeated twice for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 6 credits

**BACS 401 Assessment and Treatment Planning 3.0 Credits**

The focus of this course is learning the systematic, multi-disciplinary approach for gathering, interpreting, applying and recording data regarding clients in addictions and other behavioral health treatment settings. The most current screening, assessment, treatment planning and documentation approaches are covered.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 404 Cognitive and Behavioral Counseling II 3.0 Credits**

This course extends BACS 304 by deepening the exploration of cognitive-behavioral therapy theory and methods. More emphasis and developing skills in conceptualization and treatment. Some focus on how clients can manage anger better and how therapists can take care of themselves appropriately.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** BACS 304 [Min Grade: C]

**BACS 405 Family-Focused Interventions 3.0 Credits**

This course gives students the knowledge, skills and attitudes to: identify and overcome the barriers that prevent family members from being full partners in the mental health treatment of their family member; define family from a culturally competent perspective; and provide mental health intervention in full partnership with families.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 410 Child and Adolescent Support 3.0 Credits**

This course is based on the principles of Child and Adolescent Service System Program (CASSP). The course gives students the knowledge, skills important to implementing a comprehensive care system for families and their children endorsed by the Commonwealth of Pennsylvania.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 411 Forensic Behavior Health Service 3.0 Credits**

The intersection between law and behavioral health services in the focus of this course. Topics include: the criminal justice system, criminal thinking, community and ethical barriers, biopsychosocial models that are specific to the forensic client and the growing base of knowledge about community corrections.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 412 Group Counseling II 3.0 Credits**

This is an advanced course in the facilitation of group processes, with an emphasis on group counseling. The course provide skills in group facilitation including application of theory, tracking process and initiating interventions, working with special populations, incident management, treatment planning processes, and recording progress.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 414 Co-Occurring Disorders 3.0 Credits**

This course introduces an integrated treatment approach for working with individuals who have both mental illness and substance use disorders. Topics include: assessment and treatment planning, strategies for coordinating dual interventions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 420 Psychiatric Rehabilitation Competencies 3.0 Credits**

The purpose of this advanced course is to help students develop the competencies necessary to implement the principles and practices of Psychiatric Rehabilitation. This is accomplished by engaging the student in an in-depth analysis of the tools and processes used to bring about outcomes related to community integration and the life quality.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**BACS 490 Senior Research Project 3.0 Credits**

The students, with faculty supervision, plan and execute a term project that will integrate the academic and practical knowledge the students have acquired in their curriculum. The students develop objectives relevant to the project, critique the literature, present a plan for implementation, and complete the term project. May be repeated twice for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 6 credits

**BACS 499 Readings in Behavioral Health 1.0-6.0 Credit**

This course is designed to allow upper-class students to pursue specialized interest in specific topics in behavioral health science. May be repeated three times for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 9 credits

## Cardiovascular Perfusion

### Courses

**CVPT 101 Perfusion Technology I 3.0 Credits**

In Perfusion Technology I, the student is introduced to the various components that comprise the perfusion hardware, such as perfusion pumps, oxygenators, tubing packs and ancillary equipment used in CPB circuits. In this course, students receive extensive wet-lab experience and should be able to demonstrate a pump set-up.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CVPT 289 Cardiac Anatomy and Physiology 4.0 Credits**

Cardiac Anatomy and Physiology expands knowledge learned in basic anatomy and physiology coursework. Explores the structure and mechanisms by which the cardiovascular system functions in relation to other organ systems, with an emphasis on how cardiopulmonary bypass alters normal function.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CVPT 293 Basic Surgery and Monitoring 3.0 Credits**

Basic Surgery and Monitoring introduces basic surgical aspects, including sterile and aseptic techniques, interrelationships of various personnel in the operating room and various surgical techniques as they relate to perfusion. Explores all facets of patient monitoring, with an emphasis on changes associated with the conduct of perfusion.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CVPT 295 Clinical Practicum I 4.0 Credits**

Clinical Practicum I exposes students to the operating room, where their primary responsibilities are observing and assisting senior students and staff perfusionists. Provides experience including pump set-up, handling case records, gathering lab data, and limited perfusion management.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CVPT 300 Clinical Practicum II 6.0 Credits**

Clinical Practicum II is a course focused entirely on clinical perfusion. Includes responsibility for pump set-up and cardiopulmonary bypass case management. Includes close supervision for each individual case.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** CVPT 295 [Min Grade: D]

**CVPT 305 Pediatric Clinical Practicum 2.0 Credits**

Pediatric Clinical Practicum examines the differences among adult, infant and neonate perfusion methods during a one-month rotation to Children's Hospital of Philadelphia. Emphasizes circuit preparation, priming volumes, flow rates and hemodynamic changes, pharmacological agents, direct visualization of various congenital anomalies and surgical corrections.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** CVPT 307 [Min Grade: D] and CVPT 330 [Min Grade: D]

**CVPT 307 Clinical Practicum III 6.0 Credits**

Clinical Practicum III provides clinical work aimed at increasing the level of proficiency in the conduct of patient perfusion. Under supervision, students are responsible for all aspects of clinical perfusion and are exposed to specialized techniques and adjunctive technology used for cardiopulmonary bypass.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** CVPT 300 [Min Grade: D]

**CVPT 310 Perfusion Technology II 4.0 Credits**

Perfusion Technology II reinforces the operating room techniques observed in CVPT 295 in a classroom setting. Examines ancillary and perfusion support systems, including ventricular-assist devices, extracorporeal membrane oxygenation, CPS, intra-aorta Balloon pumps and others.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** CVPT 101 [Min Grade: D]



**CVPT 320 Physiologic Management of Bypass 4.0 Credits**

Physiologic Management of Bypass provides an understanding of the many physiologic changes that occur during bypass and a method for safely and effectively addressing these changes. Emphasis is placed on hemodynamics, fluid balance, blood coagulation and electrocardiographic activity as they apply to perfusion.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CVPT 330 Cardiovascular Pathology 4.0 Credits**

Cardiovascular Pathology provides an understanding of pathological conditions that exist in all organ systems, with special emphasis on the cardiovascular system. Discusses both acquired and congenital defects, with attention given to pathological conditions requiring cardiopulmonary bypass.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** CVPT 320 [Min Grade: D]

**CVPT 340 Cardiovascular Pharmacology 4.0 Credits**

Cardiovascular Pharmacology details the various pharmacologic interventions used for cardiovascular patients, highlighting their classification, dosage, site of action, duration of action, interactions with other drugs, precautions and side effects.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** CVPT 289 [Min Grade: D]

**CVPT 350 Clinical Practicum IV 12.0 Credits**

Clinical Practicum IV is designed to complete the students' clinical experience. Expects students, under staff supervision at all times, to act as though unsupervised in all routine cardiovascular procedures. Allows the operation of complex devices as well as student participation in emergency procedures.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** CVPT 307 [Min Grade: D]

**CVPT 360 Cardiac Surgical Practicum 2.0 Credits**

A multi-faceted course incorporating many of the disciplines found in an acute care setting. Rotations include the following observational areas: catheterization lab, recovery room, anesthesia, intra-aortic balloon pumps, surgical assisting and ventricular assist devices.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** CVPT 365 [Min Grade: D]

**CVPT 365 Clinical Practicum V 12.0 Credits**

Clinical Practicum V is an advanced course designed to focus on the initiation and discontinuation of cardiopulmonary bypass. Interaction with the surgeon and anesthesiologist is essential and proper communication skills are developed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** CVPT 350 [Min Grade: D]

**CVPT 370 Clinical Practicum VI 10.0 Credits**

Clinical Practicum VI is an advanced course designed to focus on the patient's hemodynamic status during the preoperative, perioperative, and post operative time periods. The student is educated in proper drug and fluid administration. EKG rhythms are assessed in conjunction with post operative expectations and heart function.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** CVPT 365 [Min Grade: D]

**CVPT 375 Clinical Practicum VII 10.0 Credits**

Clinical Practicum VII is an advanced course designed to prepare the student for handling complications which may occur during an open heart procedure. Senior students are involved in simulations which mimic actual clinical situations/problems. The students utilize their clinical experience and knowledge base to assess the operating room situations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** CVPT 370 [Min Grade: D]

## Health & Society

### Courses

**HLSO 101 Intro to Health & Society 1.0 Credit**

Designed as an introduction to health and health care beyond the clinical environment, this course introduces students to the intersection of health and society by means of weekly lectures on various aspects of health and health care in relation to societal concerns and needs.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**HLSO 301 Rhetoric and Reality of Health Care 3.0 Credits**

The dissemination of information on health care and the language involved in the information are key factors in determining how the individual responds to health-care issues and treatment. This course will examine the nature of rhetoric as it influences health-care decisions at a societal and at an individual level.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HLSO 302 Consumer-Driven Health Care 3.0 Credits**

This course focuses on how market economics and personal responsibility combine to drastically change health-care insurance saving, utilization, and satisfaction. Effects on employers, health-care providers, hospitals, and insurers are examined.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HLSO 303 Urban Health Care 3.0 Credits**

Using an ecological model to analyze the special needs and issues in urban health care, students will examine the people, place, and politics of an urban area to assess the delivery and quality of health care and will complete an analysis of a real and current urban health care delivery problem, including solutions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HLSO 304 Health Care and Quality Improvement 3.0 Credits**

Quality Improvement (QI) is a critical component of the health-care delivery system in the United States. Because errors and reliability issues have major implications, standards and measures are imperative to ensure consistency and safety. As such, this course examines existing program in place and best-industry practices.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HLSO 305 Health Promotion and Wellness 3.0 Credits**

Students will study the seminal international and U.S. documents that founded the health-promotion and wellness movement and will examine the use of health promotion in improving the health of individuals, groups, communities, and populations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HLSO 306 Human Services & Health Systems 3.0 Credits**

This course introduces existing health-care systems in the United States and globally in terms of the human services that support and are supported by those systems and the effect of human services on those systems and vice versa.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HLSO 307 Disaster Planning and Health Care 3.0 Credits**

This course examines the unique challenges to managers of health-care institutions, in-patient populations, providers of care, and the public health and safety systems during a disaster, as well as the complex relationships between and among government officials, first responders, and the public regarding disaster planning and during a crisis.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HLSO 308 Concepts of Injury Prevention 3.0 Credits**

This course focuses on the epidemiology of injury prevention and control in the public sector. Mechanisms of injury and risk factors for accidental injury and death are examined. Various prevention strategies are reviewed, as is a look to the future of injury prevention.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HLSO 309 Health Fads, Trends & Myths 3.0 Credits**

We are part of a society bombarded with fads, trends, and myths of all types, and health care is no exception. Distinguishing one from the other is a tricky business. This course will help separate fads from both trends and myths and all three from evidence-based therapies.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HLSO 310 Children & Health Care 3.0 Credits**

This course will focus on a range of issues facing the health-services industry in providing care to children with the goal of better understanding and meeting the special needs and challenges from both a direct care and systematic point of view.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HLSO 313 AIDS, Society & Health Care 3.0 Credits**

This course will look at the impact of HIV/AIDS on health care from a patient, provider, societal, and systems perspective. We will address how this local and national global pandemic affects societies and health services throughout the world.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**HLSO 314 Human Sexuality & Health Care 3.0 Credits**

This course explores human sexuality in relation to individual and societal attitudes and examines the role of health care in effectively dealing with and treating issues arising from human sexual dysfunctions, diseases, myths, phobias, and other concerns.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HLSO 319 Health Care Legislation 3.0 Credits**

This course will examine the major roles played by local, state, and federal governments in the funding, delivery, oversight, and evaluation of health care services. The rationale, history, and current examples of how localities protect the public health are given.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HLSO 320 Individual and Health Care Politics 3.0 Credits**

Health care policy can easily become questions of statistics and spreadsheets that obscure their origins in individual experience. Drawing upon a series of personal essays, this course will discuss the power of first-hand experience in shaping health care discourse.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HLSO 321 Health Issues and the Environment 3.0 Credits**

This course provides a general review of the leading environmental health issues of today by identifying historical, political, societal, and medical approaches to safeguarding population health from the environmental, while protecting and preserving the environment.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HLSO 322 Ideologies & Health Care 3.0 Credits**

This course will examine the role of political, religious, cultural, and philosophical ideologies on societies -- past and present -- in terms of the nature and delivery of health care, as well as the effects of these ideologies on the health and well-being of the societies as a whole and of the individuals comprising the societies.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HLSO 327 Health & Illness in Film 3.0 Credits**

This course analyzes various films with themes and stories related to health and illness in view of conceptual theories on health and illness and copetual elements of film as a representational medium.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HLSO 329 Grief & the Healing Arts 3.0 Credits**

Grief is a typical response to loss as, for example, in the loss of a human life, a body part, a former state of existence, or a valued pet. This course will examine grief and the role of the arts as a therapeutic means of dealing with grief and loss both in terms of professional health care giver and the grieving individual.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D] and ENGL 102 [Min Grade: D] and ENGL 103 [Min Grade: D]

**HLSO 370 Spec Topics in Health & Society 3.0 Credits**

This course covers topics of particular interest in health and society. In different terms, a variety of topics will be presented to the students. Students may repeat the same course, but not the same topic. Students majoring in health and society will have first preference.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated multiple times for credit

**Restrictions:** Can enroll if classification is Junior or Sophomore or Senior.

**Prerequisites:** ENGL 101 [Min Grade: D] and ENGL 102 [Min Grade: D]

**HLSO 470 Readings in Health & Society 1.0-6.0 Credit**

This course is designed to allow approved junior and senior students with cumulative GPA's of at least 3.0 to pursue specialized interests in specific topics in health and society under the supervision of an appropriate faculty member. This course, but not the same topic, may be repeated for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 12 credits

**Restrictions:** Can enroll if classification is Junior or Senior.

**Prerequisites:** ENGL 101 [Min Grade: D] and ENGL 102 [Min Grade: D] and ENGL 103 [Min Grade: D]

**HLSO 490 Senior Research Project 3.0 Credits**

Designed for seniors in Health and Society, the student, in conjunction with a faculty member, selects a topic for a term project integrating knowledge acquired in the curriculum. The student develops objectives relevant to the project, critiques the literature, presents a plan for implementation, and completes the project.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is HLSC and classification is Senior.

**Prerequisites:** ENGL 101 [Min Grade: D] and ENGL 102 [Min Grade: D] and ENGL 103 [Min Grade: D]

## Health Services Administration

### Courses

**HSAD 125 Medical Terminology 3.0 Credits**

This course introduces the language of medicine through an analysis of medical prefixes, suffixes, and root words.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**HSAD 210 Health-Care Ethics I 3.0 Credits**

This course addresses introductory concepts and basic issues in health-care ethics. The topics include but are not limited to decision-making, professionalism and advocacy, confidentiality, truth-telling and informed consent.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: C] or ENGL 102 [Min Grade: C] or ENGL 103 [Min Grade: C]

**HSAD 309 Advanced Health-Care Ethics 3.0 Credits**

This course builds on the foundation provided in Health Care Ethics and discusses such issues as chronic care, end of life, beginning of life, distributive justice and the right to health care.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** HSAD 210 [Min Grade: C]

**HSAD 310 Introduction to Health-Systems Administration 3.0 Credits**

The course is designed to assist the student in understanding and preparing for the unique challenges presented to managers in a health services administration career. History and current milieu of U.S. health care are considered, as well as the ever changing infrastructure of the health-services industry.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: C] or ENGL 102 [Min Grade: C] or ENGL 103 [Min Grade: C]

**HSAD 312 Development of World Health Care 3.0 Credits**

This course examines a broad overview of the ongoing development of health-care policies, availability, and philosophy in a cross-section of countries by means of detailed case studies to examine both common and unique challenges and solutions, as well as global responses, to crises, such as plagues, epidemics, and natural disasters.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D] or ENGL 105 [Min Grade: D] or HUM 106 [Min Grade: D]

**HSAD 313 Evolution of Health Care in the United States 3.0 Credits**

This course will cover the evolution of health care in the U.S. from pre-colonial times to the present by discussing improvements in treatment institutions, modalities, philosophies and access to care, as well as the impact of major events in history on health-care discoveries on the delivery and administration of health services in the United States.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HSAD 315 Interdisciplinary Health Services 3.0 Credits**

This course focuses on the role, responsibilities, scope of practice, and special concerns of health-care providers and their disciplines. The concept of interdisciplinary health-care practice is examined, along with basic concepts of teamwork and team formation.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D] or ENGL 105 [Min Grade: D] or HUM 106 [Min Grade: D]

**HSAD 316 Health Care across Cultures 3.0 Credits**

Living in a pluralistic society poses many challenges and opportunities. This course examines the impact of cultural upon health-care decision. Concepts such as "health," "illness," "culture," "ethnicity," will be analyzed. Traditional and alternative approaches to the delivery of health care will be addressed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D] or ENGL 105 [Min Grade: D] or HUM 106 [Min Grade: D]

**HSAD 317 Religious Views on Health Care 3.0 Credits**

Addresses the impact of a person's religious beliefs on the need for and delivery of health care. Specific issues will be discussed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D] or HUM 101 [Min Grade: D]

**HSAD 318 Health and Vulnerable Populations 3.0 Credits**

Vulnerable populations, those with special needs for or barriers to care, have a significant impact upon health care, both in terms of meaning and delivery. This course looks at the meaning of health through the eyes of various distinct vulnerable populations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D] or ENGL 105 [Min Grade: D] or HUM 106 [Min Grade: D]

**HSAD 319 Women and the Health Professions 3.0 Credits**

This course explores women's early and controversial roles as health-care providers, the influence of government and the church on women, and key contributions by women in the health professions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D] or HUM 101 [Min Grade: D]

**HSAD 320 Managed Health Care 3.0 Credits**

This course provides the student an opportunity to survey the major concepts and operational considerations of the provision of health-care services in a managed-care environment. The regulatory landscape as well as the physician/patient relationship is considered as a key to understanding the managed health care environment.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D] or ENGL 105 [Min Grade: D] or HUM 106 [Min Grade: D]

**HSAD 321 Health-Care Human Resources 3.0 Credits**

An introduction to the basic principles of human-resource management and their practical application in today's complex health-care organization. This course examines the role of human resources as a strategic partner within the organization.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** HSAD 310 [Min Grade: C] and HSAD 334 [Min Grade: C]

**HSAD 322 Health-Care Law 3.0 Credits**

Provides an overview of the major laws affecting health-care professionals and examines the current legal climate in health care.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: C] or ENGL 102 [Min Grade: C] or ENGL 103 [Min Grade: C]

**HSAD 323 Health Services and the Elderly 3.0 Credits**

This course covers a broad spectrum of health-care issues and concerns facing today's elderly, such as health-care coverage, living arrangements, acute and long-term-illness management, enhanced quality of life issues, and gender-specific health concerns.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D] or ENGL 105 [Min Grade: D] or HUM 106 [Min Grade: D]

**HSAD 324 Health Technology and Ethical Responsibility 3.0 Credits**

Developments in health care technology challenge many of our common assumptions about basic concepts such as health, disease, and normality. This course encourages students to consider some of the issues raised by changing health technology.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman

**Prerequisites:** HSAD 210 [Min Grade: C] or PHIL 321 [Min Grade: C]



**HSAD 325 Issues in Health Care System 3.0 Credits**

This course provides the student with the opportunity to analyze management problems that are of current importance in today's health-care industry on a national and international level.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D] or ENGL 105 [Min Grade: D] or HUM 106 [Min Grade: D]

**HSAD 326 Holism and Health Care 3.0 Credits**

Details the development of medicine from the late nineteenth century to the present in view of the corresponding rise of interest in a holistic approach to health care by means of alternative and complementary medicine in relation to traditional medical practices.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D] or ENGL 105 [Min Grade: D] or HUM 106 [Min Grade: D]

**HSAD 327 Partnerships in Health Care 3.0 Credits**

Addresses health service as a collaborative venture identifying the primary stakeholders and partners in the administration of health care including clinicians, administrators, institutions, industry, private and governmental agencies, and the patient. In addition, practical strategies for developing effective partnerships are explored.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D] or ENGL 105 [Min Grade: D] or HUM 106 [Min Grade: D]

**HSAD 328 Health Care for Diverse Groups 3.0 Credits**

Examines the administration of health services and special needs to different subpopulations classified according to gender, ethnicity, race, weight (the obese), and sexual orientation.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D] or ENGL 105 [Min Grade: D] or HUM 106 [Min Grade: D]

**HSAD 329 Health Care and the Media 3.0 Credits**

Much of the public's perception of issues in health care comes from the media (newspapers, magazines, television, film, advertising, the internet). The course explores the interactive relationship between health care and the media in presenting information to the public.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 103 [Min Grade: D] or ENGL 105 [Min Grade: A] or HUM 108 [Min Grade: D]

**HSAD 330 Financial Management in Health Care 3.0 Credits**

Emphasizes basic financial management theory related to the health-care industry, as well as accounting practices for health-care organizations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ACCT 115 [Min Grade: C]

**HSAD 331 Non-profits and Health Care 3.0 Credits**

Provides an overview of the not-for-profit and advocacy sector of health care, explores business fundamentals and current models, selects a health topic, assesses the market, and assists students in developing their own not-for-profit and/or advocacy business.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** HSAD 310 [Min Grade: C]

**HSAD 332 Health-Care Marketing 3.0 Credits**

Provides a comprehensive review of marketing's role in the health-care field by examining the history of health-care marketing, the contributions of marketing to the strategic objectives of health-care organizations, and the effects of marketing on public relations and the consumer.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** HSAD 310 [Min Grade: C]

**HSAD 333 Health, Illness, and the Arts 3.0 Credits**

This course provides the opportunity to examine topics relevant to health and illness as depicted in the arts - primarily literature, film, and painting as well as other arts forms where appropriate.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D] and ENGL 102 [Min Grade: D] and ENGL 103 [Min Grade: D]

**HSAD 334 Management of Health Services 3.0 Credits**

In this course, students will learn forms and uses of traditional management functions - plan, direct, monitor, evaluate - as well as contemporary functions that are used in an array of health care services organizations. Students match skills and competencies within the respective domains of health services management.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** HSAD 310 [Min Grade: C]

**HSAD 335 Health-Care Policy 3.0 Credits**

This course provides an introduction to the development and implications of U.S. health-care policy, including key governmental and non-governmental participants and the political process.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** HSAD 310 [Min Grade: C] and PSCI 110 [Min Grade: C]

**HSAD 336 Urban Health Care 3.0 Credits**

Using an ecological model to analyze the special needs and issues in urban health care, students will examine the people, place, and politics of an urban area to assess the delivery and quality of health care and will complete an analysis of a real and current urban health-care-delivery problem, including solutions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]



**HSAD 337 Health Care/Quality Improvement 3.0 Credits**

Quality Improvement (QI) is a critical component of the health-care-delivery system in the United States. Because errors and reliability issues have major implications, standards and measures are imperative to ensure consistency and safety. As such, this course examines existing programs in place and best-industry practices.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HSAD 338 Human Services & Health Systems 3.0 Credits**

This course introduces existing health-care systems in the United States and globally in terms of the human services that support and are supported by those systems and the effect of human services on those systems and vice versa.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HSAD 339 Health Care Legislation 3.0 Credits**

This course will examine the major roles played by local, state, and federal governments in the funding, delivery, oversight, and evaluation of health-care services. The rationale, history, and current examples of how localities protect the public health are given.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HSAD 340 Leadership in Health Services Administration 3.0 Credits**

This course discusses issues in management and leadership in a health-care-administration setting by focusing on alternative organizational structures and the managerial role in these structures, as well as exploring managerial and leadership roles in specific health organizations and project management.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** HSAD 310 [Min Grade: C] and HSAD 334 [Min Grade: C]

**HSAD 341 Risk Management in Healthcare Organizations 3.0 Credits**

This course is an introduction to risk management in health care. It describes the roles of a risk manager and the risks associated with various health care settings. Regulatory, contractual and medical malpractice exposures are discussed and techniques for controlling and preventing loss are evaluated. Students prepare a risk management plan for a healthcare organization.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**HSAD 342 Children and Health Care 3.0 Credits**

This course will focus on a range of issue facing the health-services industry in providing care to children with the goal of better understanding and meeting the special needs and challenges from both a direct care and systematic point of view.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HSAD 343 Health and Illness in Film 3.0 Credits**

This course analyzes various films with themes and stories related to health and illness in view of conceptual theories on health and illness and conceptual elements of film as a representational medium.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D] and ENGL 102 [Min Grade: D]

**HSAD 344 The Individual and Health Care Politics 3.0 Credits**

Health-care policy can easily become questions of statistics and spreadsheets that obscure their origins in individual experience. Drawing upon a series of personal essays published in the journal *Health Affairs* and collected into the volume *Narrative Matters*, this course will discuss the power of first-hand experience in shaping health-care discourse.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ENGL 101 [Min Grade: D]

**HSAD 345 Ethics in Health Care Management 3.0 Credits**

This course focuses on one aspect of the role of health care management professionals: the ethical dimension. The course combines an understanding of ethical theory with the practical application of ethical principles to management issues that arise in the health care arena. Discussions will be guided by cases drawn from real work experiences.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman

**Prerequisites:** HSAD 210 [Min Grade: C] or PHIL 321 [Min Grade: C]

**HSAD 351 Ethical Issues in Reproduction 3.0 Credits**

This course discusses ethical issues concerning human reproduction. The issues span contraception, abortion, assisted reproductive technologies, parenthood, and balancing fetal and maternal interests. Focus is placed on the variety of perspectives on these issues and underlying values.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman

**Prerequisites:** HSAD 210 [Min Grade: C] or PHIL 321 [Min Grade: C]

**HSAD 352 Ethics in Health Care Research 3.0 Credits**

This course is designed to familiarize students with some of the ethical issues involved in health-care research. These issues include, but are not limited to, responsible authorship, use of human subjects, use of animals, defining and handling scientific misconduct, confidentiality, and conflicts of interest.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman

**Prerequisites:** HSAD 210 [Min Grade: C] or PHIL 321 [Min Grade: C]

**HSAD 353 Public Health Ethics 3.0 Credits**

This course will address ethical issues in public health. Students will be exposed to a variety of views on topics including, but not limited to, human rights, the balancing of individual rights with public interests, managing disasters, epidemics, risky behaviors, and the meaning of health from a population standpoint.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman

**Prerequisites:** HSAD 210 [Min Grade: C] or PHIL 321 [Min Grade: C]

**HSAD 470 Readings in Health-Services Administration 1.0-6.0 Credit**

This course is designed to allow juniors and seniors majoring in health-services administration and carrying minimum cum GPAs of 3.0 to pursue specialized interests in specific topics in health-services administration on an independent basis, yet under the direction of program faculty members. Faculty permission is required. May be repeated twice for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 12 credits

**Restrictions:** Can enroll if classification is Junior or Senior.

**Prerequisites:** ENGL 103 [Min Grade: D] or ENGL 105 [Min Grade: A] or HUM 108 [Min Grade: D]

**HSAD 480 Special Topics in Health-Services Administration 3.0 Credits**

This course covers topics of particular interest to students majoring in health-services administration. In different terms, a variety of topics are presented to the students. May be repeated for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated multiple times for credit

**Prerequisites:** ENGL 103 [Min Grade: D] or ENGL 105 [Min Grade: A] or HUM 108 [Min Grade: D]

**HSAD 490 Senior Research Project 3.0 Credits**

Designed for the senior in health-services administration, the student, in conjunction with a faculty member, selects a topic for a term project integrating knowledge acquired in the curriculum. The student develops objectives relevant to the project, critiques the literature, presents a plan for implementation, and completes the project.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if classification is Senior.

**Prerequisites:** ENGL 103 [Min Grade: D] or ENGL 105 [Min Grade: A] or HUM 108 [Min Grade: D]

## Health Sciences

### Courses

**HSCI 201 Health Assessment through the Lifespan 4.0 Credits**

Course focuses on health assessment across the lifespan. The focus is on the development of interviewing skills, assessment of health status, and physical examination skills for the beginning health professional student.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ANAT 103 [Min Grade: C]

**HSCI 204 Clinical Health Informatics 3.0 Credits**

This course examines technology and the tools of the Internet, with a focus on the use of cyber-technology and select computer applications. The automation of data management through information systems, expert systems, and telecommunication, and the impact of technology on health care education and research are addressed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** CS 161 [Min Grade: C]

**HSCI 301 Pharmacology I 3.0 Credits**

This course introduces health professional students to the principles of pharmacology and drug therapies, pharmacologic-therapeutic classes of drugs and important drug information resources.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ANAT 101 [Min Grade: C] and ANAT 102 [Min Grade: C] and ANAT 103 [Min Grade: C]

**HSCI 302 Pharmacology II 3.0 Credits**

This course focuses on common drugs used in the treatment of disorders of cardiovascular, renal, respiratory and gastrointestinal systems, anti-infective and anti-inflammatory agents, immune and biologic modifiers and chemotherapeutic agents, and miscellaneous hematologic, dermatologic, ophthalmic, and otic agents.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** HSCI 301 [Min Grade: C]

**HSCI 310 Introduction to Clinical Research 4.0 Credits**

This course provides a comprehensive introduction to the principals and practices underlying clinical research. Topics to be covered include: the protection of human subjects, scientific misconduct, asking clinical research questions, conducting literature searches, critical appraisal of the health literature, and evidence based practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**HSCI 313 Clinical Trials Protocols 4.0 Credits**

Students learn to design and implement a clinical trial protocol. Topics include experimental design, research team member roles and management of clinical trials. Special research techniques for special populations are considered. Means of preventing scientific misconduct through proper monitoring are discussed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** HSCI 310 [Min Grade: C]

**HSCI 315 Current Issues in Clinical Research 3.0 Credits**

This course is designed to discuss current issues impacting clinical research practice. Topics include ethical issues, scientific issues and operational issues. There is also an opportunity to learn strategies for obtaining a position in clinical research and identify organizations that support clinical research practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** HSCI 313 [Min Grade: C]

**HSCI 325 Exercise Physiology 4.0 Credits**

This course examines the acute and chronic effects of exercise on human physiology. Topical areas include neuromuscular physiology, cardiopulmonary, energy metabolism, nutrition, exercise evaluation, body composition, exercise prescription, and influence of environmental factors and clinical conditions on response to exercise.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ANAT 101 [Min Grade: C] and ANAT 102 [Min Grade: C] and ANAT 103 [Min Grade: C]

**HSCI 326 Applied Anatomy and Kinesiology 4.0 Credits**

This course applies the foundations of anatomy and physiology to the study of human movement, with emphasis on normal motions of the musculoskeletal system. Topical areas include musculoskeletal anatomy, neuroanatomy, biomechanics, lever systems, and the influence of musculoskeletal disease and injury in normal movement.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ANAT 101 [Min Grade: C] and ANAT 102 [Min Grade: C] and ANAT 103 [Min Grade: C]

**HSCI 337 Genetics and Health 3.0 Credits**

This course discusses the Human Genome Project and how to apply genetic knowledge to patient knowledge and patient care in the following ways: identifying the need for genetic testing, obtaining and recording information, and supporting choice by patients about genetic issues.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** BIO 122 [Min Grade: C] and BIO 124 [Min Grade: C] and BIO 126 [Min Grade: C]

**HSCI 415 Musculoskeletal Pathophysiology 4.0 Credits**

Introduction to the study of diseases, disorders and injuries of the musculoskeletal system. The biomechanics of connective tissue and basic science of inflammation, repair, regeneration and fibrosis are discussed. Students learn the pathogenesis, pathophysiology and clinical presentation of selected musculoskeletal disorders. The concepts of epidemiology and risk factors are considered.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ANAT 101 [Min Grade: C] and ANAT 102 [Min Grade: C] and ANAT 103 [Min Grade: C]

**HSCI 430 Developmental Anatomy 4.0 Credits**

This course expands upon the student's knowledge of anatomy by describing the events involved in the formation of organ systems in the developing human. The laboratory portion of the course examines congenital defects of the systems and discusses possible causes and treatments from a clinical perspective.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ANAT 101 [Min Grade: C] and ANAT 102 [Min Grade: C] and ANAT 103 [Min Grade: C]

**HSCI 470 Readings in Health Sciences 1.0-6.0 Credit**

This course is designed to allow upper-class student to pursue specialized interests in specific topics in the health sciences. May be repeated twice for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 12 credits

**Restrictions:** Can enroll if classification is Junior or Senior.

**HSCI 480 Special Topics in Health Sciences 1.0-12.0 Credit**

This course covers topics of a particular interest to students in health sciences. In different terms, a variety of topics are presented to the students.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 4 times for 24 credits

**HSCI 490 Senior Research Project 3.0 Credits**

In this course, the student, with faculty supervision, selects a topic for a term project that integrates the academic and practical knowledge the student has acquired in his/her curriculum. The student develops objectives relevant to the project, critiques the literature, presents a plan for implementation, and completes the term project.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if classification is Senior.

## Invasive Cardiovascular Technology

### Courses

**ICVT 300 Introduction to Cardiology 3.0 Credits**

This course is designed to provide an introduction to the cardiology environment. It includes medical terminology, confidentiality, professionalism, patient's rights, medical ethics, universal precautions, and communications skills in cardiology.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**ICVT 302 Cardiovascular System 2.0 Credits**

This course will review basic information about the functioning of the heart and lungs as it is applied to clinical practice. A complete description of the cardiovascular system to include blood circulations, embryological development and the pulmonary system will be discussed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ANAT 103 [Min Grade: C]

**ICVT 303 Patient Assessment I 3.0 Credits**

This course will allow the student to gain experience in recognizing and evaluating laboratory blood gases, hematology, coagulation and acid base disturbance as they relate to the needs of the cardiovascular patient. It will focus on "normal" and "abnormal" values associated with the diagnosis, treatment and prevention of cardiac episodes.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ICVT 302 [Min Grade: C]

**ICVT 304 Cardiac Laboratory Procedures 3.0 Credits**

Introduction to the diagnostic procedures used in the Cardiac Catheterization Laboratory. Prior didactic instruction in cardiac anatomy and physiology and medical instrumentation will be applied.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ICVT 302 [Min Grade: C]

**ICVT 305 Coronary Anatomy & Imaging 2.0 Credits**

Discusses the anatomy of coronary arteries. It will review radiation production, x-ray beam characteristics, film-screen characteristics, film processing and imaging system performance.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ICVT 302 [Min Grade: C]

**ICVT 306 ECG & Special Topics 4.0 Credits**

This course presents the electrocardiography theory and principles necessary to recognize and evaluate ECG data from a real-time monitor, 12 lead electrocardiogram. Included is a detailed examination of the hearts cellular mechanisms, conduction pathology and the disease process responsible for irregularities of heart rhythm.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ICVT 302 [Min Grade: C]

**ICVT 308 Cardiovascular Angiography 3.0 Credits**

This course will expand on information learned in Cardiac Laboratory Procedures. It will emphasize advanced cardiovascular diagnostic and therapeutic procedures to include injection techniques, Intra-aortic balloon pumping, and Percutaneous Transluminal Coronary Angioplasty (PTCA) and patient closure devices.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ICVT 304 [Min Grade: C] and ICVT 305 [Min Grade: C] and ICVT 306 [Min Grade: C]

**ICVT 309 Hemodynamic Data I 4.0 Credits**

Students are introduced to the primary hemodynamic formula's associate with monitoring and evaluation of the cardiovascular patient. Hemodynamic monitoring skills, basic hemodynamic calculations, arrhythmia recognition and reports generated on a variety of physiological monitoring systems are presented in detail.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ICVT 306 [Min Grade: C] and ICVT 304 [Min Grade: C]

**ICVT 310 Radiation Safety & Equipment 3.0 Credits**

This course enables student radiographers to strengthen their competencies with issues related to radiation protection. The student will continue to evaluate such topics as radiobiology, radiation quantities, units and standards for radiation protection.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**ICVT 311 Patient Assessment II 2.0 Credits**

A continuation of patient assessments I, providing a solid theory base for the delivery of safe patient care in potentially unstable or unpredictable situations is the focus of this course. Documentation within the catheterization laboratory will be revisited along with continued discussion of procedures, protocols and patient education.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ICVT 303 [Min Grade: C]

**ICVT 312 Clinical Practicum I 8.0 Credits**

This clinical course is designed to allow the student to gradually gain experience in assisting the cardiologist to perform diagnostic cardiac catheterization procedures and hemodynamic calculations. Some or all pre-requisites may be taken as either a pre-requisite or co-requisite. Please see the department for more information.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ICVT 309 [Min Grade: C] (Can be taken Concurrently)ICVT 303 [Min Grade: C] and ICVT 304 [Min Grade: C] and ICVT 305 [Min Grade: C] and ICVT 306 [Min Grade: C]

**ICVT 406 Disease & Medical Emergencies 3.0 Credits**

This course explains etiology, pathophysiology, and clinical findings associate with myocardial infarction, coronary artery, valvular and aortic diseases, and presents a detailed examination of congenital heart defects and hereditary disease process.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ICVT 412 [Min Grade: C] and HSCI 301 [Min Grade: C]

**ICVT 407 Cardiovascular Review I 4.0 Credits**

In this course, students will evaluate and review certification requirements. Student's will gain insight into their strengths and weaknesses associated with the certification requirement. Students will also form a directed plan of study to prepare for the CCI/RCIS or ARRT/CI examination.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ICVT 409 [Min Grade: C] and ICVT 412 [Min Grade: C] and HSCI 301 [Min Grade: C]

**ICVT 409 Hemodynamic Data II 3.0 Credits**

This is a continuation of hemodynamic data I. The student will have further development in hemodynamics monitoring and calculations. This course will expand on student's knowledge of ventricular function, thermodilution methods, ejection fraction, regurgitant fraction and other formulas utilized within the catheterization.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ICVT 309 [Min Grade: C] and ICVT 312 [Min Grade: C]

**ICVT 410 Cardiovascular Review II 5.0 Credits**

This course is a continuation of ICVT 407 with emphasis on additional evaluate and review certification requirements.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**ICVT 411 Special Topics in Cardiology 2.0 Credits**

This course covers topics of particular interest to students in cardiovascular health science. In different terms, a variety of topics will be presented to the students.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**ICVT 412 Clinical Practicum II 8.0 Credits**

A continuation of Clinical Practicum I, with emphasis and understanding of all clinical duties involved within the cardiovascular area to include additional knowledge of aseptic techniques.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ICVT 309 [Min Grade: C] and ICVT 312 [Min Grade: C]

**ICVT 422 Clinical Practicum III 10.0 Credits**

A continuation of Clinical Practicum II, with emphasis and understanding of all clinical duties involved within the cardiovascular area to include additional knowledge of aseptic techniques.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ICVT 412 [Min Grade: C] and ICVT 409 [Min Grade: C]



**ICVT 432 Clinical Practicum IV 8.0 Credits**

A continuation of Clinical Practicum III, students will continue to develop skill by active participation in a cardiac catheterization laboratory.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ICVT 407 [Min Grade: C] and ICVT 422 [Min Grade: C]

## Medical Billing & Coding

### Courses

**MBC 101 Medical Terminology for Billers and Coders 3.0 Credits**

This course covers medical terminology and anatomy from a biller's and coder's perspective and provides a foundation for courses in medical billing and coding.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**MBC 201 Medical Billing I 3.0 Credits**

Designed as part one of a two-part sequence, this course is intended for those who have no experience or minimal experience with medical billing. The student will learn principles of medical billing related to proper claim form preparation, submission, and payment processing.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**MBC 202 Medical Billing II 3.0 Credits**

Designed as part two of a two part sequence, this course is intended for those who have completed MBC 201 and who are seeking further knowledge of medical billing.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** MBC 201 [Min Grade: D] or HSAD 201 [Min Grade: D]

**MBC 250 Medical Billing Software 3.0 Credits**

This course takes the theory learned in Medical Billing I and II and applies it to billing software applications. Charge entry, payment posting, report design, and generation are covered.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** MBC 202 [Min Grade: D] or HSAD 202 [Min Grade: D]

**MBC 301 Physician-Based Medical Coding I 3.0 Credits**

Designed as part one of a two-part sequence, this course teaches the principles of medical coding related to the three main coding manuals and can prepare the student to sit for one of the two national board exams in medical coding.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** MBC 202 [Min Grade: D] or HSAD 202 [Min Grade: D]

**MBC 302 Physician-Based Medical Coding II 3.0 Credits**

Designed as part two of a two-part sequence, this course continues instruction in the principles of medical coding related to the three main coding manuals, as well as preparing the students to sit for one of the two national board exams in medical coding.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** MBC 301 [Min Grade: D] or HSAD 301 [Min Grade: D]

**MBC 303 Hospital-Based Medical Coding I 3.0 Credits**

Designed as part one of a two-part sequence, this course teaches the principles of hospital-based medical coding related to the coding for in-patient hospital cases by means of the main coding manuals, as well as helping to prepare the student to sit for one of the two national board exams in medical coding.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** MBC 301 [Min Grade: D] or HSAD 301 [Min Grade: D]

**MBC 304 Hospital-Based Medical Coding II 3.0 Credits**

Designed as part two of a two-part sequence, this course continues instruction in the principles of hospital-based medical coding related to the coding for in-patient and out-patient hospital cases by means of the main coding manuals, as well as helping to prepare the students to sit for one of the two national board exams in medical coding.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** MBC 303 [Min Grade: D] or HSAD 303 [Min Grade: D]

**MBC 350 Physician-Based Chart Auditing 3.0 Credits**

This course applies knowledge learned in Physician-Based Medical Coding I and II to auditing patient-visit documentation. Use of various audit tools and software will be explored in addition to preparing a presentation of audit results to physician and staff.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** MBC 302 [Min Grade: D] or HSAD 302 [Min Grade: D]

**MBC 360 Hospital-Based Case Studies 3.0 Credits**

This course applies knowledge learned in Hospital Based Medical coding I and II and applies it to actual coding of case studies for the hospital in-patient and out-patient setting, as well as providing additional preparation for hospital-based coding certification credentials.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** MBC 304 [Min Grade: D] or HSAD 304 [Min Grade: D]

## Neuroscience

### Courses

**NEUR 410 Neuroscience 4.0 Credits**

This course is designed to provide the student with a strong foundation in the structure and function of the nervous system. Clinical correlations are provided throughout the course to underscore the necessity for understanding the material for effective clinical practice and to provide a neurophysiological basis for various pathological conditions commonly encountered in the practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ANAT 103 [Min Grade: D]



# Nutrition & Food Science

## Courses

### **NFS 100 Nutrition, Foods, and Health 2.0 Credits**

Covers the six nutrient categories and how they function in the body. Includes nutritional implications of major diseases, food safety issues, and current food and nutrition controversies with an emphasis on personal health.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

### **NFS 101 Introduction to Nutrition & Food 3.0 Credits**

Provides basic understanding of required nutrients and how they are used in the body. Students complete a computerized nutrient analysis and apply the science of nutrition and food to food choices to improve their personal health.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

### **NFS 111 Introduction to Dietetics 2.0 Credits**

A survey of the dietetics field with emphasis on the role of the Registered Dietetics in practice. Discussion of current professional issues including evidence-based practice and the nutrition care process.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is DIET or major is HNUT.

### **NFS 200 Nutrition I: Principles of Nutrition 4.0 Credits**

Covers principles of human nutrition, including energy metabolism. Covers physiological mechanisms and food sources of carbohydrates, lipids, proteins, vitamins, and minerals in relation to optimal human health.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** CHEM 103 [Min Grade: D]

### **NFS 203 Nutrition II: Nutrition in the Lifecycle 4.0 Credits**

Covers nutrition in human life cycles with emphasis on prenatal, maternal, infant, childhood, adolescent, adulthood and later maturity. Also covers nutrient requirements and typical health and disease problems of each stage of the life span. Laboratory activities provide application of nutrition topics in preventive health activities related to the life span, with emphasis on diet-evaluation techniques.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman

**Prerequisites:** NFS 200 [Min Grade: D] or BIO 121 [Min Grade: D] or NFS 101 [Min Grade: D] or NFS 230 [Min Grade: D]

### **NFS 205 Introduction to Human Lactation 3.0 Credits**

This course will provide a foundation in breastfeeding and human lactation, including breastfeeding education and promotion during the prenatal period, successful initiation of breastfeeding, prevention of many common pitfalls, and ongoing breastfeeding support. This course covers the fifteen specific areas required by Baby Friendly USA for all nurses working in prenatal and perinatal areas in Baby-Friendly Hospitals.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

### **NFS 215 Nutritional Chemistry 3.0 Credits**

Covers the chemistry of carbohydrates, lipids, proteins, and nucleic acids and their behavior in the body's major metabolic mechanisms, including the role of vitamins and minerals in enzyme systems critical to normal human nutrient metabolism.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman

**Prerequisites:** CHEM 103 [Min Grade: D]

### **NFS 216 Nutrition and the Schoolchild 3.0 Credits**

A course designed for future elementary school teachers to increase their knowledge of childhood nutrition as it relates to health promotion, health maintenance, and the prevention and treatment of nutritionally relevant health abnormalities in elementary school students. The scientific basis of nutrition and principles of education are emphasized. Some or all pre-requisites may be taken as either a pre-requisite or co-requisite. Please see the department for more information.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** BIO 102 [Min Grade: D] (Can be taken Concurrently)

### **NFS 217 Nutrient Quality & Composition 1.0 Credit**

Applications of principles of nutritional chemistry involving macronutrients and micronutrients.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman

**Prerequisites:** CHEM 103 [Min Grade: D]

### **NFS 220 Normal & Lifespan Nutrition 4.0 Credits**

Builds on basic nutrition principles to include nutrient metabolism and chemical and biological aspects of nutrition. Addresses special nutrient needs of people through the life cycle.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

### **NFS 230 Intermediate Nutrition 4.0 Credits**

The role of nutrients in body structure and function. Factors involved in the availability, digestion, absorption, and utilization of nutrients. Identification of the normal nutritional needs of individuals, and sources of nutrients. The interpretation of current research in nutritional studies.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if major is NURS

**Prerequisites:** BIO 121 [Min Grade: D] or NFS 101 [Min Grade: D]

### **NFS 265 Professional Issues in Nutrition and Foods 3.0 Credits**

Introduces professional issues in dietetics, food science, and nutrition science. Covers issues affecting current and future practice, and resources available to professionals in these fields.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman

**Prerequisites:** BIO 121 [Min Grade: D] or BIO 115 [Min Grade: D]

**NFS 310 Nutrition and Sports 3.0 Credits**

After reviewing the fundamental processes of nutrition and human development, the course applies principles of nutrition to athletic conditioning, performance, and rehabilitation from sports-related injuries. Identifies evidence based recommendations for nutritional needs of today's athlete and explores the validity of sport diet fads. Development cycle of the recreational, amateur, and competitive athlete.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if classification is Senior.

**NFS 315 Nutrition in Chronic Disease 4.0 Credits**

This course provides a basic understanding of nutrition therapy and its role in the prevention and treatment of medical conditions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NFS 200 [Min Grade: D] or NFS 230 [Min Grade: D] or BIO 121 [Min Grade: D] or NFS 100 [Min Grade: D] or NFS 101 [Min Grade: D]

**NFS 320 Pediatric Nutrition 4.0 Credits**

This course provides an overview of pediatric nutrition assessment, as well as nutrition therapy and its role in the prevention and treatment of medical conditions found in the newborn through adolescent.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NFS 200 [Min Grade: D] or NFS 230 [Min Grade: D] or BIO 121 [Min Grade: D] or NFS 100 [Min Grade: D] or NFS 101 [Min Grade: D]

**NFS 325 Nutrition & Exercise Physiology 3.0 Credits**

An advanced level course covering nutrient needs to maximize exercise performance. Energy metabolism, with emphasis on macronutrient and micronutrient needs during different levels of exercise will be emphasized. Benefits of exercise in the prevention and treatment of chronic diseases and the safety of ergogenic aids will be discussed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NFS 100 [Min Grade: D] or NFS 101 [Min Grade: D] or BIO 121 [Min Grade: D] or NFS 200 [Min Grade: D] or NFS 230 [Min Grade: D]

**NFS 345 Foods and Nutrition of World Cultures 3.0 Credits**

Provides an understanding of the diversity of cultural food choices and their nutritional implications. Includes an emphasis on cultural groups in the United States and methods to provide nutrition education to culturally diverse groups.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman

**Prerequisites:** COM 345 [Min Grade: D]

**NFS 365 [WI] Nutrition Laboratory: Food and Nutrient Analysis 4.0 Credits**

Provides quantitative study of metabolism and observable effects of nutrient factors (vitamins, minerals, fats, carbohydrates, and proteins), using foods. This is a writing intensive course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman

**Prerequisites:** NFS 215 [Min Grade: D] or BIO 311 [Min Grade: D]

**NFS 370 Foodservice Systems Management 4.0 Credits**

In-depth analysis of food purchasing, financial management of foodservices, cost controls, marketing in foodservice, equipment layout and design, and management/leadership theories and applications.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman or Sophomore

**Prerequisites:** HRM 215 [Min Grade: D] and HRMT 323 [Min Grade: D]

**NFS 371 Institutional Organization and Administration 3.0 Credits**

Covers organization, administration, and application of managerial techniques in food-service systems; personnel training; job and person analysis; and morale and motivation. Includes field trips to food-service systems.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman

**NFS 391 Community Nutrition 4.0 Credits**

Studies nutrition services provided by national, state, and local governments and private organizations. Discusses nutritional needs-assessment techniques and program-development methods. Field trips will be made to community nutrition programs.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman or Junior or Pre-Junior or Sophomore

**Prerequisites:** NFS 203 [Min Grade: D] and PSY 320 [Min Grade: D]

**NFS 415 Advanced Nutrition I: Macronutrition 4.0 Credits**

Covers biochemical and physiological topics of macronutrient metabolism, with emphasis on ingestion, digestion, absorption, and excretion of carbohydrate, protein, and lipid.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman

**Prerequisites:** (NFS 200 [Min Grade: D] or NFS 230 [Min Grade: D]) and NFS 215 [Min Grade: D] and NFS 217 [Min Grade: D] and BIO 154 [Min Grade: D]

**NFS 416 Advanced Nutrition II: Micronutrients 4.0 Credits**

Provides in-depth study of vitamin and mineral absorption, metabolism, and degradation, with an emphasis on human health requirements and a thorough understanding of nutrient and dietary requirements.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman

**Prerequisites:** NFS 415 [Min Grade: D]

**NFS 431 Nutrition Counseling 4.0 Credits**

Emphasizes nutrition-counseling techniques for use with individuals and small groups. Includes development of nutrition education materials as well as verbal and non-verbal communication skills.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NFSC and classification is Senior.

**Prerequisites:** NFS 443 [Min Grade: D] and PSY 342 [Min Grade: D]

**NFS 443 Medical Nutrition Therapy I 3.0 Credits**

First of a three-course sequence examining the interrelationships of physiology, biochemistry, and nutrition as related to medical nutrition therapy. Emphasizes nutritional assessment and the role of nutrition in preventing and treating diseases/disorders: gastrointestinal diseases, diabetes, obesity, and cardiovascular disease.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman or Junior or Pre-Junior or Sophomore

**Prerequisites:** NFS 416 [Min Grade: D]

**NFS 444 Medical Nutrition Therapy II 3.0 Credits**

Second of a three-course sequence examining the interrelationships of physiology, biochemistry, and nutrition as related to medical nutrition therapy. Emphasizes nutrition assessment and the role of nutrition in preventing and treating disease/disorders; disease of the liver, pancreas, and gallbladder; pulmonary disease; renal disease; cancer; HIV/AIDS; allergies, pediatric disease; and metabolic disturbances.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman or Junior or Pre-Junior or Sophomore

**Prerequisites:** NFS 443 [Min Grade: D]

**NFS 445 Medical Nutrition Therapy III 3.0 Credits**

Third of a three-course sequence examining the interrelationships of physiology, biochemistry, and nutrition as related to severe/stressful conditions which require enteral or parenteral nutrition or other advanced medical nutrition therapies.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman or Junior or Pre-Junior or Sophomore

**Prerequisites:** NFS 444 [Min Grade: D]

**NFS 446 Perspectives in World Nutrition 3.0 Credits**

Examines world nutrition and food supply, including the nutritional status of various peoples, deficiency diseases, problems of food distribution, and other timely subjects.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman

**NFS 475 Advanced Seminar in the Dietetics Profession 3.0 Credits**

Reviews, evaluates, and synthesizes contemporary professional issues in dietetics.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Cannot enroll if classification is Freshman or Junior or Pre-Junior or Sophomore

**Prerequisites:** (NFS 154 [Min Grade: D] and NFS 203 [Min Grade: D] and NFS 400 [Min Grade: D]) or (NFS 150 [Min Grade: D] and NFS 152 [Min Grade: D] and NFS 203 [Min Grade: D] and NFS 400 [Min Grade: D])

**NFS 480 Special Studies in Nutrition and Food 12.0 Credits**

Covers selected topics of interest. May be repeated for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated multiple times for credit

**Restrictions:** Cannot enroll if classification is Freshman

**NFS 494 Senior Project I 2.0 Credits**

First in a series of capstone courses in which student carry out the research process. In NFS 494, students work cooperatively to identify an applied, discipline oriented problem and then develop research hypotheses and a written research proposal in response to that problem.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NFSC and classification is Senior.

**NFS 495 Senior Project II 2.0 Credits**

Second in a series of capstone course in which students carry out the research process. In NFS 495, students work cooperatively to carry out the research objectives according to the research proposal developed in NFS 494.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NFS 494 [Min Grade: D]

**NFS 496 Senior Project III 2.0 Credits**

Third in a series of capstone course in which students carry out the research process. In NFS 496, students work cooperatively to document the finding of their research in NFS 495. Students make oral and poster presentations as well as produce a written report of their research results.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NFS 495 [Min Grade: D]

**NFS 497 Research 1.0-3.0 Credit**

Provides individual research in nutrition under faculty supervision.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 9 credits

**Restrictions:** Cannot enroll if classification is Freshman

**NFS 498 Independent Study 1.0-3.0 Credit**

Provides individual study or research in nutrition under faculty supervision.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 9 credits

**Restrictions:** Cannot enroll if classification is Freshman

# Nursing

## Courses

### **NURS 104 Ethics, Advocacy and Professionalism in Nursing III 1.0 Credit**

The purpose of the third part of this course is to focus on the practical application of redefining nursing, healthcare and medication errors, medication diversion, and end of life issues. These concepts will be introduced and examined as they relate to the student's professional growth.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** NURS 103 [Min Grade: D]

### **NURS 110 Essentials of Relationship-Based Professional Nursing Practice 4.0 Credits**

This course provides students with the tools, strategies, and resources inherent in relationship-based professional nursing practice. This course focuses on exploring the historical context of nursing, introducing the IOM core competencies, and examining the role of the professional nurse in today's healthcare environment.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NACE or major is NURS.

**Prerequisites:** ANAT 102 [Min Grade: D] (Can be taken Concurrently)ANAT 101 [Min Grade: D] and ENGL 102 [Min Grade: D]

### **NURS 112 Relationship-Based Health Assessment & Promotion 5.0 Credits**

This course focuses on establishing the professional nurse / patient relationship-based care that promotes and assesses health within the adult population. Special emphasis is placed on screening for health risks identified by national goals and population trends. The student develops physical assessment skills applicable to professional practice and incorporates health promotion activities associated with the guidelines established by Healthy People 2020.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NACE or major is NURS.

**Prerequisites:** NURS 110 [Min Grade: D] (Can be taken Concurrently)ANAT 101 [Min Grade: D] and ANAT 102 [Min Grade: D] and BIO 226 [Min Grade: D]

### **NURS 200 Principles of Nursing Practice 6.0 Credits**

This course will focus on the concepts, skills, and the attitudes fundamental to professional nursing practice within a framework of clinical decision-making. Some or all pre-requisites may be taken as either a pre-requisite or co-requisite. Please see the department for more information.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NACE or major is NURS.

**Prerequisites:** ANAT 103 [Min Grade: D] and BIO 226 [Min Grade: D]

### **NURS 204 Nursing Informatics 3.0 Credits**

This course is designed to examine computer technology and tools of the Internet and World Wide Web with a focus on the use of cyber technology and selected computer applications. The automation of data management through information systems, expert systems, and telecommunication, and the impact of these technologies on nursing administration, education, practice and research are addressed in the context of nursing informatics. Actual problem-solving and mini-design projects on how computerization and automation can improve the efficiency of nursing care delivery will be emphasized.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 100 [Min Grade: D] and NURS 102 [Min Grade: D] and CS 161 [Min Grade: D]

### **NURS 300 Comprehensive Adult Nursing I 6.0 Credits**

This course will focus on the development of selected competencies for nursing care assessment and management of adults with predictable human responses to specific system alterations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 200 [Min Grade: D] and NURS 112 [Min Grade: D] and INFO 204 [Min Grade: D]

### **NURS 301 Pharmacology for Nursing I 3.0 Credits**

Introduces professional nursing students to the principles of pharmacology and drug therapies, pharmacologic-therapeutic classes of drugs and important drug information resources.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 200 [Min Grade: D] and NURS 112 [Min Grade: D]

### **NURS 303 Women's Health Nursing 6.0 Credits**

This course focuses on the development of competencies for the nursing care management of child-bearing families and health problems/concerns that affect women. The course will also emphasize the nurse's role in health assessment, health promotion, and promotion of adaptive processes for the maternity patient and the promotion of women's health in general. Sociocultural, economic, political, and ethical factors that impact on health promotion, disease prevention, and risk reduction for the childbearing family and women in general are examined. Selected women's health clinical settings will be utilized for clinical practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 300 [Min Grade: D] and NURS 301 [Min Grade: D]

### **NURS 304 Nursing of Children 6.0 Credits**

This course focuses on the development of competencies for the nursing care management of children experiencing potential and actual alterations in health. An emphasis will be placed on the nurse's role in health assessment, health promotion, and promotion of adaptive processes for the child within the context of the family. Selected pediatric clinical agencies will be utilized for clinical practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** PSY 101 [Min Grade: D] and PSY 120 [Min Grade: D] and NURS 300 [Min Grade: D] and NURS 301 [Min Grade: D]



**NURS 305 Comprehensive Adult Nursing II 6.0 Credits**

This course is a continuation of NURS 300. It will focus on the development of selected competencies for nursing care assessment and management of adults with predictable human responses to specific system alterations. Risk reduction, recovery, and rehabilitation of patients with selected disease processes and common clinical problems are addressed. Didactic medical-surgical content will focus on the gastrointestinal, renal, immunologic, integumentary, sensorineural, neurologic, musculoskeletal, male reproductive, and infectious disease systems. Home care principles and health policy for adults with common acute and chronic illnesses and diseases will also be explored. Selected general medical-surgical settings and home-care agencies will be utilized for clinical practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 300 [Min Grade: D] and NURS 301 [Min Grade: D]

**NURS 306 Pharmacology for Nursing II 3.0 Credits**

This course is a continuation of NURS 301. The course will begin with a review of drug and dosage calculations. This course will focus on drugs and cardiovascular and renal systems, respiratory system, anti-infective and anti-inflammatory agents, immune and biologic modifiers and chemotherapeutic agents, gastrointestinal system and nutrition, and miscellaneous therapeutics including hematologic, dermatologic, ophthalmic, and optic agents. Strategies to prevent medication errors in health care agencies will be discussed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 301 [Min Grade: D]

**NURS 308 Mental Health Nursing 6.0 Credits**

This course focuses on the development of competencies necessary for the practice of mental health nursing with emphasis on the use of self in relationships with patients and health team members. An understanding of the brain-behavior connection and the importance of the therapeutic nurse-patient relationship will provide the framework for exploring factors which contribute to stress, maladaptive behaviors and mental illness. Cross-cultural aspects of mental health and appropriate culturally relevant interventions will also be emphasized. Selected inpatient and outpatient mental health settings and agencies will be utilized for clinical practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** PSY 101 [Min Grade: D] and NURS 300 [Min Grade: D] and NURS 301 [Min Grade: D]

**NURS 324 Intro to Online Learning: Tools for Success 2.0-3.0 Credits**

This course provides a guided, hands-on introduction to the skill sets necessary to support online learning, communication, and the production of scholarship. Students will be introduced to technologies and resources that are fundamental to success in the RN-BSN program.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 325 [WI] Critical Issues in Nursing 3.0 Credits**

Critical Issues in Shaping Nursing. The health care system has undergone dramatic shifts, driven by changing economic; demographic; and technological forces. This course explores the impact of these forces on healthcare delivery, and concerns relating to ethical, legal and social issues that influence nursing practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 330 [WI] Research Basis of Nursing 4.0 Credits**

This course will introduce the student to the theoretical and research bases on which practice is built. Students will examine the knowledge that guides nursing interventions and critique published research reports. The importance of reviewing the nursing literature in order to maintain currency in practice will be addressed. Ethical issues as they relate to research, theory and practice will be discussed. This is a writing intensive course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if classification is Senior.

**Prerequisites:** STAT 201 [Min Grade: D] or SOC 364 [Min Grade: D] or STS 345 [Min Grade: D] or PSY 364 [Min Grade: D]

**NURS 336 Alternative and Complementary Health Interventions 3.0 Credits**

This course is an introduction to the theoretical literature which investigates the efficacy of alternative medicine health care practices and complementary therapies which are broadly defined as biotherapeutic interventions. Any intervention which is aimed at biologic, psychologic, or spiritual healing may be termed biotherapeutic. The context of the human illness experience is explored as an opportunity for nurses to recommend and patients to experience traditional and nontraditional healing practices. Biotherapeutic modalities with applications for nursing and health care are also explored. An emphasis is placed on the delivery, teaching, and referral of biotherapeutic interventions for clients seeking alternative and complementary health therapies.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS and classification is Senior.

**NURS 337 [WI] Genetics in Nursing and Health 3.0 Credits**

This course will discuss the implications of the Human Genome Project and how to apply genetic knowledge to patient knowledge to patient care in the following ways: identifying those in need of further genetic testing, offering genetic information, recording genetic information, referring patients and families for further genetic information and evaluation, support informed choice regarding health decisions, advocacy for privacy, confidentiality, and non-discrimination with regard to genetic information, and participate in management of patients with genetic conditions. The ethical consideration as they relate to genetics will also be explored. This is a writing intensive course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ANAT 103 [Min Grade: D]



**NURS 339 Pathophysiology 3.0 Credits**

Pathophysiology for Nurses. This course builds upon the theoretical foundations of nursing theory; human anatomy, and physiology by addressing basic concepts, principles, and processes associated with common pathologies, physiological alterations in body system, and the body's ability to compensate for these changes.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ANAT 103 [Min Grade: D] and (CHEM 101 [Min Grade: D] or CHEM 103 [Min Grade: D]) and (BIO 226 [Min Grade: D] or BIO 221 [Min Grade: D])

**NURS 340 Transformational Leadership 3.0 Credits**

Transformational Leadership. This course will focus on the professional nurses roles in applying the principles of leadership, management and ethics in health care organizations across the continuum of care. The course will provide opportunities in problem solving, critical thinking, constructive communication and well as teaching learning strategies that emphasize the leadership/management roles of the nurse.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 345 Holistic Self-Care 3.0 Credits**

Holistic Self-Care provides students with an A-Z approach to "living" a holistic, balanced life, complete with step-by-step guidelines necessary to incorporate dietary and lifestyle changes and effective stress reduction and stress management techniques to assist in navigating through the common challenges associated with student life and beyond. Students will be required to purchase a "Holistic Student Stress Reduction Kit", complete with specific essential oils, Meditation DVD, and guided stress reduction techniques.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 346 Health Assessment 6.0 Credits**

Health Assessment and Promotion for Diverse Vulnerable Populations. This course is designed to assist professional nurses in developing interviewing skills, physical assessment techniques, and preventive health interventions when working diverse and vulnerable populations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 350 Independent Study in Nursing 1.0-3.0 Credit**

This is a guided independent study. Students study a subject under the supervision of the nursing faculty member. May be repeated for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 9 credits

**NURS 370 Issues in Aging and Longevity 4.0 Credits**

Issues in Aging and Longevity. This course focuses on current issues in promoting longevity with healthy aging. Current biopsychosocial theories on aging are explored. The multidisciplinary needs of older adults, including relationship challenges, are addressed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 375 Nurses Building a Healthy Community 6.0 Credits**

Nurses Building a Healthy Community. This course focuses on the professional role of the community public health nurse working collaboratively to build a health community. The role of nurses is explored by their actions with aggregate population, community partners, and other health providers.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 346 [Min Grade: D]

**NURS 388 Nursing Case Study I 1.0 Credit**

Nursing Case Study Integration I. This course is designed to extend students' understanding of common adult health disorders. Critical thinking skills will be used to integrate and analyze knowledge of therapeutic communication, health assessment and nursing process, pharmacology, nutrition, and anatomy and physiology.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 200 [Min Grade: D] and NURS 110 [Min Grade: D] and NURS 112 [Min Grade: D]

**NURS 400 [WI] Leadership, Management, and Entrepreneurship in Nursing 3.0 Credits**

Focuses on professional nursing role in applying principles of leadership and management in health care organizations across the continuum of care. Emerging and roles for nurse entrepreneurs and professional practitioners will be explored. Also emphasizes the role of the professional nurse in efficient patient care management in complex health care settings. This is a writing intensive course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NACE or major is NURS.

**Prerequisites:** NURS 305 [Min Grade: D]

**NURS 401 Comprehensive Adult Nursing III 6.0 Credits**

This course will focus on the development of selected competencies for nursing care assessment and management of adults with unpredictable and complex human responses to specific system alterations. The course will emphasize the assessment of functioning, adaptation, and recovery for patients with high acuity illnesses and clinical problems. Selected high acuity acute care settings will be utilized for clinical practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 301 [Min Grade: D] and NURS 303 [Min Grade: D] and NURS 304 [Min Grade: D] and NURS 305 [Min Grade: D] and NURS 306 [Min Grade: D] and NURS 308 [Min Grade: D]

**NURS 403 Community Public Health Nursing 6.0 Credits**

The focus of this course is the professional nurse's role in working with aggregates in the community. The student will first reexamine the principles of health promotion as they form the bases for effective community health nursing practice. The student will then explore the role of the community health nurse working collaboratively with the community as part of an interdisciplinary team. Grounded in systems theory and informed by the concepts and principles of community health nursing, public health nursing, wellness, health promotion, and national goals, the student works with aggregates in the community setting. An introduction to conceptual frameworks that guide community-based, population-focused practice and research is included in both the classroom and clinical portions of the course. The student uses skills in community assessment, program planning and practice interventions in helping identified populations within the community maintain their optimum level of health. Selected measures for evaluating outcomes of community health nursing programs are discussed. Contemporary public health problems encountered in community health nursing practice are explored. Selected community health and public health clinical agencies will be selected for clinical practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 300 [Min Grade: D] and NURS 301 [Min Grade: D] and NURS 303 [Min Grade: D] and NURS 304 [Min Grade: D] and NURS 305 [Min Grade: D] and NURS 306 [Min Grade: D] and NURS 308 [Min Grade: D]

**NURS 404 Nursing Informatics for BSN Completion 3.0 Credits**

Designed for registered nurses in the RN-BSN completion program. Examines computer applications, technology, internet tools. Focuses on health care informatics context for data management, information systems & telecommunications in nursing administration, education and practice. Problem solving and mini-design projects related to increased efficiency in nursing care delivery.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUOL.

**NURS 450 Contemporary Gerontological Nursing 6.0 Credits**

This course will focus on the nursing management of older adults. Contemporary theories of gerontology, theories of aging, physiological/psychological functioning, impact of developmental changes, illness, and dysfunction will be emphasized. The geriatric patient will be examined at various levels -- healthy older adult, older adult at risk, the older adult experiencing acute and chronic illness. Students' clinical experiences will be in home health agencies, transitional, and long-term facilities.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if classification is Senior.

**Prerequisites:** NURS 300 [Min Grade: D] and NURS 301 [Min Grade: D] and NURS 303 [Min Grade: D] and NURS 304 [Min Grade: D] and NURS 305 [Min Grade: D] and NURS 306 [Min Grade: D] and NURS 308 [Min Grade: D] and NURS 401 [Min Grade: D]

**NURS 460 Global Health & Policy Issues 6.0 Credits**

Global Health and Policy Issues. This course is an overview of global health issues. Emphasis will be placed on understudy of health policy development related to global health issues, healthcare systems, and its effect on selected population.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 325 [Min Grade: D] and NURS 375 [Min Grade: D]

**NURS 462 Science, Technology and Health 3.0 Credits**

Science, Technology, and Health. This course is an intensive overview of the latest discoveries and trends in science and technology which have implication if the broader health of man-kind and nursing.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUOL.

**Prerequisites:** NURS 330 [Min Grade: C] and NURS 325 [Min Grade: C]

**NURS 464 Senior Concentration in Nursing 3.0 Credits**

Senior Concentration in Nursing. The student, with a faculty supervisor, selects a clinical area of practice for in-depth 60 hours of clinical experience. Students will be immersed in the current literature of the clinical discipline to demonstrate competent and safe nursing practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if classification is Senior.

**NURS 465 Senior Thesis in Nursing 3.0 Credits**

Senior Thesis in Nursing. The student, with a faculty supervisor, plans a project that will be implemented that quarter. The project must be substantive and scholarly and be presented to the nursing community.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if classification is Senior.

**NURS 480 Special Topics in Nursing 1.0-12.0 Credit**

The course provides a forum for in-depth exploration of a contemporary issue in nursing or health care which can influence the quality of health care services provided to patients. Specific issues covered in the course will change from term to term. This course may be repeated three times for credit as topics vary.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 5 times for 20 credits

**Restrictions:** Can enroll if major is NURS and classification is Senior.

**NURS 481 Issues & Resolutions in End of Life Care 3.0 Credits**

Promotes understanding of complexities associated with care of clients and families across the lifespan at end-of-life. Explores nursing management of individuals and families facing end-of-life care and decisions. Emphasis on evidenced-based practice in legal, ethical and professional decision-making framework. Conforms with AACN/ELNEC model.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS and classification is Senior.

**NURS 482 Cultural Dimensions of Nursing Care 3.0 Credits**

The focus of this course will be on strategies for providing culturally competent nursing care in a multicultural society. Emphasis is placed on evidence-based nursing practice within a framework of ethical, legal, and professional decision making.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS and classification is Senior.

**NURS 488 Nursing Case Study II 1.0 Credit**

Nursing Case Study Integration II. This course is designed to extend students' understanding of common adult health disorders. Critical thinking will be used integrate and analyze knowledge of therapeutic communication, health assessment and nursing process, pharmacology, nutrition, and anatomy and physiology using selected case studies.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 112 [Min Grade: D] and NURS 110 [Min Grade: D] and NURS 200 [Min Grade: D]

**NURS 489 Synthesis of Nursing Knowledge 4.0 Credits**

Synthesis of Nursing Knowledge. This course prepares students for senior seminar by providing a comprehensive content review of clinical material and culminating in a comprehensive HESI exam. Skills needed for effective interpersonal communication and professional behaviors of the nurse will be learned and rehearsed utilizing the standardized patient lab experience. May be repeated once for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 1 times for 4 credits

**Prerequisites:** NURS 401 [Min Grade: D] and NURS 304 [Min Grade: D] and NURS 305 [Min Grade: D] and NURS 306 [Min Grade: D]

**NURS 490 Senior Project in Nursing 3.0 Credits**

In this course, the student with faculty supervision, plans a long-term project that will be implemented in NURS 491. This project will integrate the academic and practical knowledge the student has acquired in their nursing curriculum. Examples of projects include the following: developing/implementing a teaching tool or a teaching plan, conducting a small clinical research study or evaluating data specific to management patterns that promote effective nursing care. Students will develop objectives relevant to the project, critique the literature and present a plan for implementation.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 300 [Min Grade: D] and NURS 303 [Min Grade: D] and NURS 304 [Min Grade: D] and NURS 305 [Min Grade: D] and NURS 306 [Min Grade: D] and NURS 308 [Min Grade: D] and NURS 400 [Min Grade: D]

**NURS 491 Senior Project in Nursing II 3.0 Credits**

This is a continuation of NURS 490. Implementation of the project developed in NURS 490 will be done under faculty supervision. Students will make a formal presentation of their project to their professional peers and the MCP Hahnemann/Drexel community.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if classification is Senior.

**Prerequisites:** NURS 490

**NURS 492 Senior Seminar in Nursing 3.0 Credits**

This course will serve as a review of important concepts from the nursing curriculum. Students will focus on those concepts that they need to improve for the successful practice of professional nursing. Students will utilize the Nursing Technology lab to review procedures practiced throughout the nursing curriculum and will use computerized testing to gauge their mastery of professional nursing content.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated multiple times for credit

**Restrictions:** Can enroll if classification is Senior.

**Prerequisites:** NURS 300 [Min Grade: D] and NURS 303 [Min Grade: D] and NURS 304 [Min Grade: D] and NURS 305 [Min Grade: D] and NURS 306 [Min Grade: D] and NURS 308 [Min Grade: D] and NURS 400 [Min Grade: D] and NURS 401 [Min Grade: D]

## Physiology

### Courses

**PHGY 325 Physiology 5.0 Credits**

Presentation of organ function with emphasis on the integration of neural and humoral control mechanisms.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ANAT 101 [Min Grade: D] and ANAT 102 [Min Grade: D] and ANAT 103 [Min Grade: D]

**PHGY 382 Pathophysiology for Health Professions 5.0 Credits**

Introduction to disturbances of normal function and basic mechanisms involved in diseases of major organ systems. Presentation of the general aspects of the common human pathophysiological conditions and syndromes.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUOL.

## Radiologic Sciences

### Courses

**RADI 100 Introduction to Radiologic Technology 2.0 Credits**

Content is designed to provide a fundamental background in ethics.

The student examines a variety of ethical issues and dilemmas found in clinical practice. An introduction to legal terminology, concepts and principles. Topics include malpractice, misconduct and the ASRT scope of practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**RADI 102 Introduction to Radiologic Principles II 1.0 Credit**

Introduction to Radiologic Principles II is a continuation of RADI 100 to include medical terminology. An orientation to the understanding of radiographic order and interpretation of diagnostic reports.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 100 [Min Grade: C]

**RADI 132 Radiologic Physics I 3.0 Credits**

Radiologic Physics I begins with a review of basic mathematics and measurements, then proceeds to investigate the atom, electricity, magnetism electrostatics, electromagnetism, motors, and generators.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** MATH 100 [Min Grade: C]

**RADI 133 Radiologic Physics II 3.0 Credits**

Radiologic Physics II provides a detailed study of the characteristics of X radiation, production of X radiation, the X-ray tube, and circuitry.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 132 [Min Grade: C]

**RADI 140 Imaging Systems in Radiography 3.0 Credits**

This course starts with an overview of latent image formation for both conventional and digital image processing. It offers up-to-date coverage of the latent digital imaging systems, including computed radiography (CR), digital radiography (DR), and PACS. Finally, the proper selection of imaging factors such as exam menu choices, technical factors, imaging plate size, grids, and markers is discussed, as are vendor-driven exposure indicators.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 100 [Min Grade: C]

**RADI 150 Principles of Radiographic Exposure I 2.0 Credits**

Principles of Radiographic Exposure I provides an understanding of factors that govern and influence the production of radiographic images. Also presents accessory equipment and its effects on image quality.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**RADI 153 Principles of Radiographic Exposure II 2.0 Credits**

This course is designed to familiarize the student with the pertinent factors involved in radiographic quality. Radiographic equipment involved in daily use is studied and applications to the clinical setting are made.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 150 [Min Grade: C]

**RADI 154 Radiographic Exposure III 2.0 Credits**

A continuation of RADI 153 to include processing of radiographic films. Processing procedures and artifacts are discussed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 153 [Min Grade: C]

**RADI 164 Radiologic Procedures I 3.0 Credits**

A thorough presentation of positioning nomenclature, body planes, and anatomic terms, then proceeds to positioning technique for routine chest abdominal studies and the upper extremities.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**RADI 165 Radiographic Procedures II 3.0 Credits**

A continuation of RADI 164 to include lower extremities.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 164 [Min Grade: C] and RADI 195 [Min Grade: C]

**RADI 166 Radiographic Procedures III 3.0 Credits**

A continuation of RADI 165 to include vertebral column and bony thorax.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 165 [Min Grade: C] and RADI 196 [Min Grade: C]

**RADI 193 Methods of Patient Care I 2.0 Credits**

Discusses principles, techniques, and procedures of patient care with particular emphasis on nursing situations routinely encountered in the radiology department.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**RADI 194 Methods of Patient Care II 1.0 Credit**

This course is continuation of RADI 193. This course includes pediatrics, geriatrics, pharmacology, drug administration and alternative medical treatments.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 193 [Min Grade: C]

**RADI 195 Clinical Practicum I 1.0 Credit**

Introduces the student to the Department of Diagnostic Radiology, including rotations through fluoroscopy, general radiology, trauma unit, and operating suite as well as some clerical areas.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**RADI 196 Clinical Practicum II 1.0 Credit**

Continues the clinical experience in the Department of Diagnostic Radiology. Allows students to continue to refine their clinical skills through second rotations in areas of the department. Requires students to perform most examinations with direct supervision.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 195 [Min Grade: C] and RADI 164 [Min Grade: C]

**RADI 197 Clinical Practicum III 1.0 Credit**

Gives the students the opportunity to strengthen their clinical skills.

Increases student independence as the course progresses, allowing them to move from direct supervision into areas of indirect supervision.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 196 [Min Grade: C] and RADI 165 [Min Grade: C]

**RADI 198 Clinical Practicum IV 2.0 Credits**

Clinical Practicum IV provides students indirect supervision and greater responsibility for patients and equipment. Begins rotations through specialty areas such as radiation therapy, computed tomography, and MRI.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 197 [Min Grade: C] and RADI 154 [Min Grade: C]

and RADI 166 [Min Grade: C]



**RADI 200 Radiologic Procedures IV 3.0 Credits**

Skull radiography to include facial bones and orbits, mandible, sinuses and salivary glands. Contrast studies of the urinary upper and lower intestinal tract.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 166 [Min Grade: C] and RADI 198 [Min Grade: C]

**RADI 201 Medical Imaging 2.0 Credits**

Medical Imaging surveys the various modes of imaging and recording radiographic examinations, including fluoroscopy, computed tomography, ultrasound, digital subtraction, magnetic resonance and digital and PAC's systems.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**RADI 202 Radiologic Procedures V 1.0 Credit**

Continuation of RADI 200 to include an overview of CAT scan, MRI and ultrasound. Trauma radiology and special procedures are included in this course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 200 [Min Grade: C] and RADI 291 [Min Grade: C]

**RADI 203 Principles of Exposure IV 2.0 Credits**

Presents a complete review of exposure factors including an investigation of the theory and application of these factors as they relate to body habitus, tissue absorption and pathological changes.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 154 [Min Grade: C]

**RADI 204 Principles of Radiation Protection 2.0 Credits**

Principles of Radiation Protection provides a detailed study of the procedures and devices developed for maximum protection of patients and personnel from radiation. Discusses government agencies along with their standards and regulations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 133 [Min Grade: C]

**RADI 215 Radiation Biology 3.0 Credits**

Presents the effects of radiation on cells and the factors affecting cell response. Discusses somatic and genetic effects, both acute and chronic.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ANAT 103 [Min Grade: C]

**RADI 221 Quality Assurance 2.0 Credits**

Introduces the evaluation of radiographic systems to ensure consistent production of quality images. Explains test procedures for evaluating equipment and discusses state and federal regulations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 154 [Min Grade: C]

**RADI 222 Pathology 3.0 Credits**

Surveys the nature and causes of medical-surgical diseases, with emphasis on the radiographic considerations of disease processes.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ANAT 103 [Min Grade: C]

**RADI 223 Registry Review 1.0 Credit**

Prepares the radiologic technology student to sit for the American Registry of Radiologic Technology Examination.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 292 [Min Grade: C] and RADI 204 [Min Grade: C] and RADI 202 [Min Grade: C] and RADI 201 [Min Grade: C]

**RADI 291 Clinical Practicum V 2.0 Credits**

Second year course providing a transition into the clinical environment. Gives students indirect supervision and greater responsibility for patients and equipment. Begins rotation through specialty areas such as radiation therapy, computed tomography.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 198 [Min Grade: C]

**RADI 292 Clinical Practicum VI 2.0 Credits**

Continues the clinical experience in general areas as well as specialty areas of diagnostic imaging. Requires students to perform examinations with indirect supervision.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 291 [Min Grade: C] and RADI 200 [Min Grade: C]

**RADI 293 Clinical Practicum VII 2.0 Credits**

The final clinical experience, in which students work to perfect all clinical skills. Includes final-competency testing.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RADI 292 [Min Grade: C] and RADI 202 [Min Grade: C]

**RADI 499 Topics in Radiologic Sciences 3.0 Credits**

In this course, students will engage in a guided independent learning experience to gain additional knowledge on a particular topic in radiologic technology. This course requires students to collaborate with the professor in constructing a scholarly paper as evidence of their exploration.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 9 credits

# Statistics

## Courses

### **STS 345 Statistics for the Health Sciences 4.0 Credits**

This course is designed to provide students with a foundation of basic statistical knowledge to aid in reading and understanding research results in the health science literature. Topics will include: variable types, sampling, scales of measurement, reliability and validity of measurement, study designs, descriptive statistics, classical statistical inference, correlation, chi-square, parametric and nonparametric tests for group comparisons.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

### **STS 350 Advanced Statistics for Clinical Science 4.0 Credits**

This course focuses on the statistical methods that are appropriate for clinical research. The subject of medical research and common clinical trials designed are introduced. The use of NCSS and SAS statistical software is initiated during a review of basic statistic methods. Advanced statistical methods used in clinical trials are also covered.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** STS 345 [Min Grade: C]

# Graduate Course Descriptions

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## Creative Arts in Therapy

### Courses

#### **ARTS 501 Introduction to Creative Arts Therapy I 2.0 Credits**

Foundational theories for the creative arts therapies are discussed. Readings cover psychodynamic and object-relations concepts, symbolism and metaphor, the nature and development of creativity and response to the arts.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

#### **ARTS 502 Introduction to Creative Arts Therapy II 2.0 Credits**

This course uses experiential and didactic formats to facilitate understanding and integration of processes and principles central to the three creative arts therapy modalities of art, dance/movement and music therapy. Students compare features of the different creative arts therapy approaches and explore common themes.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

#### **ARTS 503 Introduction to Creative Arts Therapy III 2.0 Credits**

Principles and theories of the creative arts therapies are applied to the understanding of several case studies, with the lives of artists, dancers, musicians and writers as exemplars of how the arts impact life and reflect human experience. Clinical mental health implications are discussed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

#### **ARTS 504 Human Psychological Development I 2.0 Credits**

An introduction to human development across the lifespan with an emphasis on psychosocial and emotional development. Major theories and models of normal development, from infancy to old age, are discussed. Development of ego functions and personality, as well as deviations from normal development, are also covered in a lifespan framework.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

#### **ARTS 505 Clinical Diagnosis of Psychopathology I 2.0 Credits**

An overview of the Diagnostic and Statistical Manual, TR-IV, including etiological factors and levels of functioning. Designed to enable the beginning clinician to assess various mental and behavioral disorders in adults and children, with consideration of social, cultural and physiologic aspects.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

#### **ARTS 506 Professional Orientation and Ethics I 1.0 Credit**

Prepares the beginning student for Clinical Observation in the field and supports the formation of a professional identity as a creative arts therapist. Provides a foundation in ethics and basic clinical mental health skills of observation and interaction, and a theoretical framework for clinical practice that is sensitive to sociocultural differences/diversity.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

#### **ARTS 507 Group Dynamics and Therapy 2.0 Credits**

Students study basic aspects of group dynamics through experiential and didactic sessions, supported by assigned readings. Major emphasis is on the dynamics of groups, i.e., the group process and ways that basic group psychology plays out in psychotherapy groups. Issues include the impact of personal, socio-economic and cultural factors in response to group membership and therapy.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

#### **ARTS 508 Introduction to Behavioral Research I 2.0 Credits**

This course introduces basic qualitative, quantitative and mixed method approaches to human and behavioral research. The course emphasizes application to the creative art therapies, preparation for the master's thesis, and competencies as a consumer of research literature and as a beginning clinical researcher.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

#### **ARTS 509 Human Psychological Development II 2.0 Credits**

Continuation of ARTS 504, Human Psychological Development I.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ARTS 504 [Min Grade: C]

#### **ARTS 510 Clinical Practicum I: Observation 1.0 Credit**

Nine-week clinical placement focused on the development of fundamental observational skills. The student is assigned to a child or adult mental health facility, with an on-site creative arts therapist in the student's modality.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

#### **ARTS 511 Clinical Practicum II 1.0 Credit**

10-week clinical placement focused on the development of fundamental observational skills. The student is assigned to a child or adult mental health facility, with an on-site creative arts therapist in the student's modality.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 512 Clinical Practicum III 1.0 Credit**

Clinical placement supervised by a qualified creative arts therapist in the student's modality. The student continues to function as a student therapist, co-leading and leading modality-specific groups and individual sessions under supervision. Includes Mental Health Science Supervision with a psychiatrist, psychologist, or other qualified mental health clinician.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 513 Clinical Diagnosis of Psychopathology II 2.0 Credits**

Continuation of ARTS 505, Clinical Diagnosis of Psychopathology I.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**ARTS 515 Introduction to Behavioral Research II 2.0 Credits**

Continuation of ARTS 508, Introduction to Behavioral Research I.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**ARTS 531 Art Therapy Assessment and Treatment for Adults I 2.0 Credits**

This course examines the interactions between theory and ethical practice in art therapy with adult clinical populations. The theoretical principles of psychological development and psychodynamics are applied to clinical art therapy assessments, art media analysis and applications, art therapy treatment approaches, and the therapeutic relationship which are studied in general and as specifically applied to adults suffering from psychiatric illness.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 532 Art Therapy Assessment and Treatment for Adults II 2.0 Credits**

This course examines the interaction between theory and ethical practice in art therapy with adult clinical populations. The theoretical principles of psychological development and psychodynamics are applied to clinical art therapy assessments, art media analysis and applications, art therapy treatment approaches, and the therapeutic relationship which are studied in general and as specifically applied to adults suffering from psychiatric illness.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 531 [Min Grade: C]

**ARTS 533 Art Therapy Assessment and Treatment for Children I 2.0 Credits**

This course examines the interactions between theory and ethical practice in art therapy with children. The principles and application of artistic and psychological development, art therapy assessments, art media analysis and application, art therapy treatment approaches, and the therapeutic relationship are studied in general and as specifically applied with children suffering from developmental delays, psychiatric and medical illness.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 534 Art Therapy Assessment and Treatment for Children II 2.0 Credits**

This course examines the interaction between theory and ethical practice in art therapy with children. The principles and application of artistic and psychological development, art therapy assessments, art media analysis and application, art therapy treatment approaches, and the therapeutic relationship are studied in general and as specifically applied with children suffering from development delays, psychiatric and medical illness.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 533 [Min Grade: C]

**ARTS 535 Art Therapy Theory and Symbolism I 2.0 Credits**

This course includes the study of the history and development of art therapy. The pioneers in art therapy and the origins of art therapy theory are discussed as they relate to historical and present day practices in art therapy. The concepts of psycho-dynamics, developmental levels, and symbolism as they appear in the artwork are studied in the context of human development and behavior.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 536 Art Therapy Theory and Symbolism II 2.0 Credits**

This course includes the continued study of the history and development of art therapy. The origins of art therapy theory are discussed as they relate to historical and present day practices in art therapy. The concepts of psychodynamics, developmental levels, and symbolism as they appear in the artwork are studied in the context of human development and behavior.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 535 [Min Grade: C]

**ARTS 537 Art Therapy Group Supervision I 2.0 Credits**

In this course students participate in presenting, discussing, and evaluating patient case material that they bring from their clinical experiences. The cases are discussed in a small group interactive format where students can begin to connect theory and practice with children, adolescent and adult populations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 538 Art Therapy Group Supervision II 2.0 Credits**

In this course, students participate in presenting, discussing, and evaluating patient case material that they bring from their clinical experience. The cases are discussed in a small group interactive format where students can begin to connect theory and practice with children, adolescent and adult clinical populations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.



**ARTS 539 Art Therapy Group Supervision III 2.0 Credits**

In this course, students participate in presenting, discussing, and evaluating patient case material that they bring from their clinical experiences. The cases are discussed in a small group interactive format where students can begin to connect theory and practice with children, adolescent and adult clinical populations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 540 Art Therapy Literature and Research 2.0 Credits**

This course includes a comprehensive review of the historical and current art therapy literature in preparation for the thesis research project. Students will read art therapy literature in the areas of assessment, treatment, ethical and legal issues, research, and cultural diversity gaps in the knowledge for potential research projects.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 541 Jungian Psychology for Art Therapists 2.0 Credits**

This course is a survey of the history and principles of Jungian Psychology as applied to the Creative Arts in Therapies. The principles and application of the arts art experienced, applied, to case histories, to oneself and related to Jung's theory and the Post-Jungians.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 542 Group Dynamics: Art Therapy 2.0 Credits**

This course is part II of the Group Dynamics track. In the first course, basic group and group psychotherapy theory and practice are learned experientially and didactically. In this course, the principles and practice of group psychotherapy are applied to group art therapy. Group art therapy theory and techniques are studied in the context of the group dynamic, therapeutic factors, behaviors and art processes of members and leaders and applications to different treatment venues.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 507 [Min Grade: C]

**ARTS 551 Introduction to Anatomy and Kinesiology for Dance/ Movement Therapy 2.0 Credits**

This course introduces anatomy and kinesiology through lecture, discussion, and experiential learning formats. The course provides an overview of the musculoskeletal system and how it functions to support the mechanics of human motion. An introduction to the principles of body connectivity provides a foundation for later dance/movement therapy clinical applications. The course also supports development of body/self awareness.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**ARTS 552 Therapy Relationship Skills I 2.0 Credits**

This course introduces and provides practice in skills for establishing, understanding, and developing the therapy relationship and the therapeutic process through movement and verbal counseling processes. Students participate in and lead segments of sessions in the laboratory setting of the classroom.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 553 Therapy Relationship Skills II 2.0 Credits**

This course continues Therapy Relationship Skills I with the experience and practice of therapy relationship skills in the laboratory setting of the classroom. Particular attention is given to identifying patterns and shaping themes through which the therapy relationship and therapeutic process develops.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ARTS 552 [Min Grade: C]

**ARTS 554 Movement Observation I 2.0 Credits**

This course introduces students to movement observation and analysis within the framework of Laban Movement Analysis. In experiential and didactic frameworks, students will examine personal, relational, cultural, and societal dynamics as manifested in movement behavior. Therapeutic implications for both individuals and groups will be discussed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 555 Laban Movement Analysis Lab 0.0 Credits**

This course provides experience in improvisational movement and various cultural dance forms. Movement will be reviewed with reference to movement parameters of Laban Movement Analysis to reinforce student' developing movement analysis skills.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**ARTS 556 Movement Observation II 2.0 Credits**

This course further develops student skills in movement observation and analysis within the framework of Laban Movement Analysis. In experiential and didactic formats, students will examine personal, relational, cultural, and societal dynamics as manifested in movement behavior. Therapeutic implications for both individuals and adults will be discussed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 554 [Min Grade: C]

**ARTS 557 Dance/Movement Therapy Theory and Practice - Children I 2.0 Credits**

This experiential didactic course familiarizes students with childhood disorders and concomitant patterns of movement behavior. Theory and clinical methods in dance/movement therapy for children and adolescents are introduced.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 558 Dance/Movement Therapy Theory and Practice - Children II 2.0 Credits**

This experiential didactic course familiarizes students with childhood disorders and concomitant patterns of movement behavior. Theory and clinical methods in dance/movement therapy for children and adolescents are introduced.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 557 [Min Grade: C]

**ARTS 559 Introduction to Dance/Movement Therapy History and Literature 1.0 Credit**

This survey seminar introduces students to the historical development of dance/movement therapy theoretical orientation, and supporting literature. Experiential activities and films will illustrate particular approaches.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 560 Dance/Movement Therapy Group Supervision I 1.0 Credit**

This course supports initial integration of clinical experience and academic material. The course facilitates a process in which students examine therapeutic and professional relationships in which they are engaged in the clinical setting in order to enhance their understanding and effectiveness.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 561 Dance/Movement Therapy Group Supervision II 1.0 Credit**

This course supports initial integration of clinical experience and academic material. The course facilitates a process in which students examine therapeutic and professional relationships in which they are engaged in the clinical setting in order to enhance their understanding and effectiveness.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 562 Dance/Movement Therapy Group Supervision III 1.0 Credit**

This course supports initial integration of clinical experience and academic material. The course facilitates a process in which students examine therapeutic and professional relationships in which they are engaged in the clinical setting in order to enhance their understanding and effectiveness.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 563 Movement Perspectives in Human Development 2.0 Credits**

This course provides the student with an understanding of normal movement development from infancy to adulthood. The course addresses the relationship between movement, emotional, and cognitive development and provides examples of development disturbance. Implications for assessment and clinical application with adult and child populations are examined.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**ARTS 564 Group Dynamics and Therapy II: Dance/Movement Therapy 2.0 Credits**

Continues Group Dynamics and Therapy I. Group development and group process theory is applied to understanding interaction in the dance/movement therapy group and how this understanding informs group interventions. Course is taught in an experiential classroom lab format which supports lecture and readings and provides opportunity to practice group leadership skills.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 552 [Min Grade: C] and ARTS 553 [Min Grade: C]

**ARTS 570 Clinical Musicianship I 2.0 Credits**

Provides methods for learning to accompany self and ensembles within music therapy applications. Additional emphasis is placed on clinical improvisation methods for keyboards.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 571 Clinical Musicianship II 2.0 Credits**

This course, designed for Music Therapy students, will assist students in the development of functional guitar methods within a variety of musical styles for the purpose of facilitating music therapy processes.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 572 Clinical Musicianship III 2.0 Credits**

Provides methods for developing the clinical musical skills needed for internship in piano, guitar, vocal, percussion and major instrument areas. The course also helps to refine skills developed in Clinical Musicianship I and II, and Clinical Musical Improvisation I and II.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 573 Clinical Musical Improvisation I 2.0 Credits**

Highly experiential course designed to introduce the student to: a) musical improvisation in general, and b) techniques used within a music therapy environment to develop therapeutic relationships with groups and individuals through the creative musical process. Readings will be used to increase understanding of improvisation as a clinical application.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 574 Clinical Musical Improvisation II 2.0 Credits**

Designed to further the student's understanding of music therapy improvisation as used in clinical environments with various populations. Established models of clinical musical improvisation will be included in readings and discussed in class, with exploration of the use of verbal processing in conjunction with the musical experience.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 573 [Min Grade: C]

**ARTS 575 Theories in Music Therapy I 2.0 Credits**

An overview of clinical and research literature related to psychological theories and musical development for music therapists.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 577 Music Therapy Skills I 2.0 Credits**

This course will teach approaches and methods of music therapy as applied in mental health, mental retardation and physical disability for adult clinical populations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 578 Music Therapy Skills II: Child Skills 2.0 Credits**

This course will teach the basic approaches and techniques of music therapy for children as applied in mental health, mental retardation and physical disability.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 579 Music Therapy Skills III: Technological Applications 2.0 Credits**

This course will teach the basic music technology approaches and techniques for application with adult and child clinical populations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 580 Psychology of Music 2.0 Credits**

This course includes the study of acoustics, psychoacoustics, physiological and emotional responses, music cognition, meaning, and the psychosocial processes involved in musical perception.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 581 Music Therapy Group Supervision I 1.0 Credit**

Materials and techniques for dealing with mental, neurological and other disorders in children, adolescents and adults in various settings are related to advanced music clinical practice and research in small group presentations and discussions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 582 Music Therapy Group Supervision II 1.0 Credit**

This is a continuation of ARTS 581. The objectives and course requirements are continuous in a developmental progression toward increasing sophistication and mastery of music therapy skills and conceptual understandings.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 511 [Min Grade: C] (Can be taken Concurrently)

**ARTS 583 Music Therapy Group Supervision III 1.0 Credit**

This is a continuation of ARTS 581 and ARTS 582. The objectives and course requirements are continuous in a developmental progression toward increasing sophistication and mastery of music therapy skills and conceptual understandings.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 512 [Min Grade: C] (Can be taken Concurrently)

**ARTS 601 Theories of Psychotherapy I 2.0 Credits**

Through readings, lecture and discussions, this provides an overview of major schools and systems of psychotherapy, with emphasis on examining underlying assumptions and curative factors in each. Students learn to recognize and integrate various theoretical perspectives in the therapeutic process. Comparisons with the creative arts therapies are explored.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX or major is FATX or major is PSY.

**ARTS 602 Multicultural Perspectives in Therapy I 2.0 Credits**

The class will explore implications of cultures, race, age, ethnicity, gender, sexual orientation, social class, and physical ability within the context of mental health treatment. Through readings, experiential exercises, discussions, reflective writing, role play, and lecture multicultural issues are examined and a framework presented for the practitioner to develop flexibility, openness, knowledge and competence with diverse populations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 603 Clinical Appraisal and Assessment I 2.0 Credits**

An introduction to major established instruments and scales in intellectual, behavioral, social, emotional, developmental, and neurological testing. Students learn theories of clinical appraisal and testing, interviewing for mental health functioning, and skills of professional case presentation, with an emphasis on case conceptualization and holistic assessment.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX or major is FATX or major is PSY.

**ARTS 604 Career Counseling 4.0 Credits**

This introductory course in career counseling covers theory and practice of assessment and counseling of work and career from a lifespan perspective with attention to issues of gender, race, ethics and individuals with special needs. Includes didactic, experiential and computer-lab based learning methods.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX or major is FATX or major is PSY.

**ARTS 605 Theories of Psychotherapy II 2.0 Credits**

Continuation of ARTS 601: Theories of Psychotherapy I.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ARTS 601 [Min Grade: C]

**ARTS 606 Professional Orientation and Ethics II 3.0 Credits**

Covers ethical principles, concerns and legal issues as related to the practice of arts, music, dance/movement therapy and professional counseling. Classes use readings, videos, lecture and case discussion for mastery of concepts and problem-solving. Course also addresses the professional identity and professionalism of the psychotherapist.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 506 [Min Grade: C]

**ARTS 607 Clinical Appraisal and Assessment II 2.0 Credits**

Continuation of ARTS 603: Clinical Appraisal and Assessment I.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** ARTS 603 [Min Grade: C]

**ARTS 610 Clinical Internship I 3.0 Credits**

Advanced supervised clinical experience with a population of the student's preference, arranged by the student in collaboration with the Clinical Coordinator and Modality Director. Individual clinical supervision provided by a qualified professional in student's modality. Includes Mental Health Science Supervision with a psychiatrist, psychologist or other qualified mental health clinician.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 611 Clinical Internship II 3.0 Credits**

Advanced supervised clinical experience with a population of the student's preference, arranged by the student in collaboration with the Clinical Coordinator and Modality Director. Individual clinical supervision provided by a qualified professional in student's modality. Includes Mental Health Science Supervision with a psychiatrist, psychologist or other qualified mental health clinician.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 610 [Min Grade: C]

**ARTS 612 Clinical Internship III 3.0 Credits**

Advanced supervised clinical experience with a population of the student's preference, arranged by the student in collaboration with the Clinical Coordinator and Modality Director. Individual clinical supervision provided by a qualified professional in student's modality. Includes Mental Health Science Supervision with a psychiatrist, psychologist or other qualified mental health clinician.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 611 [Min Grade: C]

**ARTS 621 Thesis I 1.0 Credit**

Under individual advisement, the student constructs research focus and questions, conducts literature review and prepares the proposal for the masters' thesis project on an art therapy, music therapy or dance/movement therapy topic.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 508 [Min Grade: C]

**ARTS 622 Thesis II 1.0 Credit**

Under individual advisement, the student completes the proposal for the masters' thesis project on an art therapy, music therapy or dance/movement therapy topic.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 623 Thesis III 1.0 Credit**

Under individual advisement, the student completes data collection and data analysis portions of the masters' thesis project on an art therapy, music therapy or dance/movement therapy topic.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 624 Thesis IV 1.0 Credit**

Under faculty committee advisement, the student completes the discussion section of the thesis, submits the full document, defends the thesis in a formal oral defense and completes revisions with committee guidance.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 625 For Thesis Only 0.0 Credits**

This no-credit course is available to creative arts therapy students who have submitted the MA thesis to the advisory committee. Students in ARTS 625 are expected to defend the thesis, complete revisions and submit the final copy of the thesis for binding during the quarter covered by this course registration.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for NaN credits

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 621 [Min Grade: C] and ARTS 622 [Min Grade: C] and ARTS 623 [Min Grade: C]

**ARTS 626 Gerontology and the Creative Arts Therapies 1.0 Credit**

This elective course covers selected topics in normal aging from approximately age 65 until death, including developmental challenges, growth, maintenance of functioning, and creativity. Greater emphasis is placed upon elders with health challenges associated with aging and the uses of the creative arts therapies for both elders in various settings and their caregivers.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is ARTX.



**ARTS 631 Art Therapy Workshop 2.0 Credits**

This is an experiential course which utilizes the art process & productions of the students in a controlled setting to facilitate increased sensitivity to group creative and therapeutic processes within the art therapy session. The students develop an awareness of and empathy for the patients that they treat as well as heightened self-awareness through this experiential art and group process format.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 531 [Min Grade: C] and ARTS 532 [Min Grade: C] and ARTS 533 [Min Grade: C] and ARTS 534 [Min Grade: C] and ARTS 535 [Min Grade: C] and ARTS 536 [Min Grade: C]

**ARTS 632 Advanced Art Therapy Process and Practice I 2.0 Credits**

This course is a seminar in which advanced clinical theory and practice are the focus of lectures, student presentations, small discussion groups, and art experiential. Topics such as assessment, treatment, transference/countertransference, professionalism, and supervision are addressed in this course at an advanced level.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 531 [Min Grade: C] and ARTS 532 [Min Grade: C] and ARTS 533 [Min Grade: C] and ARTS 534 [Min Grade: C] and ARTS 535 [Min Grade: C] and ARTS 536 [Min Grade: C]

**ARTS 633 Advanced Art Therapy Process and Practice II 2.0 Credits**

This course is the second part of a seminar in which advanced clinical theory and practice are the focus of lectures, student presentations, small discussion groups, and art experientials. Topics such as assessment, treatment, transference/Countertransference, professionalism, and supervision are addressed in this course at an advanced level.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 632 [Min Grade: C]

**ARTS 634 Art Therapy Family Assessment 2.0 Credits**

This course will provide an introduction to family art therapy assessment. Art therapy and psychological assessment tools, readings and videos illustrating the use of art to aid in assessing families case illustrations, role playing, and art making about families will be used to study the family art therapy assessment process in depth.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 635 Multicultural Perspectives in Art Therapy 2.0 Credits**

This course explores competency models in Art Therapy in relation to gender, sexual orientation, ethnicity, socio-economic status, developmental ability, age, religion and spiritual values; via self awareness and appropriate therapeutic interventions. The diversity of artistic language, symbolism across cultures is explored. Art therapists' role in regard to advocacy and social justice are considered.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 636 Studio Art for Art Therapists 0.5 Credits**

In this independent study course art therapy students devote at least one hour a week to studio work on their own art productions. They focus on experimentation and development of knowledge of different art media as well as increased awareness of the psychological, cognitive, and emotional responses to their own creative process.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 637 Advanced Art Therapy Group Supervision I 1.5 Credit**

Small group format is used to discuss advanced clinical art therapy treatment cases. Emphasis is upon diagnosis, treatment planning, individual and group dynamics, and transference/countertransference issues. In addition, more advanced issues of art therapy program development, professional identity, and ethical issues are address. The method used is small group experiential supervision format with an emphasis upon peer supervision under the guidance of a credentialed art therapy faculty member.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 537 [Min Grade: C] and ARTS 538 [Min Grade: C] and ARTS 539 [Min Grade: C]

**ARTS 638 Advanced Art Therapy Group Supervision II 1.5 Credit**

Small group format is used to discuss advanced clinical art therapy treatment cases. Emphasis is upon diagnosis, treatment planning, individual and group dynamics, and transference/countertransference issues. In addition more advanced issues of art therapy program development, professional identity, and ethical issues are addressed. The methods used is small group experiential supervision format with an emphasis upon peer supervision under the guidance of a credentialed art therapy faculty member.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 637 [Min Grade: C] and ARTS 610 [Min Grade: C]

**ARTS 639 Advanced Art Therapy Group Supervision III 1.5 Credit**

Small group format is used to discuss advanced clinical art therapy treatment cases. Emphasis is upon diagnosis, treatment planning, individual and group dynamics, and transference/countertransference issues. In addition more advanced issues of art therapy program development, professional identity, and ethical issues are addressed. The methods used is small group experiential supervision format with an emphasis upon peer supervision under the guidance of a credentialed art therapy faculty member.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 637 [Min Grade: C] and ARTS 638 [Min Grade: C] and ARTS 610 [Min Grade: C] and ARTS 611 [Min Grade: C]



**ARTS 640 Medical Art Therapy 1.0 Credit**

This elective course includes the history of medical art therapy for pediatrics and adults, psychosocial implications of illness and hospitalization on children and adults, differentiation between acute and sub-acute hospitalization, understanding family response to illness, hospitalization and bereavement. In addition the role of the art therapist is explored including treatment planning and interventions, transference and countertransference.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 641 Forensic Art Therapy 1.0 Credit**

This elective course is an overview of forensic issues and forensic art therapy. Legal proceedings, reporting mandates, testimonial capability and evidentiary material is explored along with specific material relevant to forensic populations and practices identified as child abuse, both physical and sexual, custodial disputes and domestic violence.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 642 Art Therapy in an Education Setting 1.0 Credit**

This elective course is designed to increase understanding of art therapy in schools with attention to the institution's characteristics and culture, impact of regular and special education, role of the Child Study Team, and the function of the individualized Education Plan. Child social, emotional and cognitive development will be reviewed along with relevant assessment measures.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 643 Trauma and Art Therapy 1.0 Credit**

This elective provides an overview of trauma, theories of trauma, and therapeutic approaches for working with individuals recovering from the effects of trauma. Art therapy approaches will be introduced with emphasis on the mechanisms in art therapy that promote trauma recovery.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 651 Medical Dance/Movement Therapy 1.0 Credit**

Dance/Movement Therapy is emerging as a useful complementary approach for people with primary medical conditions. Using readings, experiential exercises, lectures, discussion, and video formats, this course examines clinical work reported to date, relevant theory from health psychology, psychoneuroimmunology, and body/mind perspectives to motivate programming and research in this area.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 652 The Kestenberg Movement Profile 3.0 Credits**

This course provides an introduction to the fundamentals of the Kestenberg Movement Profile (KMP). The KMP is a theoretically based tool for the assessment of psychological development through body movement. The course will address clinical applications of the KMP and cross-cultural issues. Teaching formats include discussion, experiential activities, and observational practice sessions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**ARTS 654 Dance/Movement Therapy Theory and Practice III: Adults 2.0 Credits**

This course addresses the theory and practice of dance/movement therapy with adults. Adult clinical disorders will be reviewed with reference to movement features, psychological issues, and therapy approaches. Medical applications of dance/movement therapy and supports for wellness will be introduced. Students investigate therapy methods through readings, experiential structures, and discussion.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 552 [Min Grade: C] and ARTS 553 [Min Grade: C]

**ARTS 655 Multicultural Perspectives in Therapy II: Dance/Movement Therapy 2.0 Credits**

This course continues the Multicultural Perspectives in Therapy I course. The course will further develop students' cultural self-awareness and culturally sensitive therapy practice. Dance/movement therapy will be discussed within existing cultural contexts of dance and healing. The course will introduce culture specific and community models of therapy.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 656 Mental Health Applications of Movement Analysis I 2.0 Credits**

Refine's students' skills in observing and evaluating movement and nonverbal communication. Reviews the major instruments and approaches for clinical assessment in dance/movement therapy. Addresses the application of Laban Movement Analysis based movement assessment in treatment.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 554 [Min Grade: C] and ARTS 555 [Min Grade: C]

**ARTS 657 Mental Health Applications of Movement Analysis II 2.0 Credits**

Continuation of ARTS 656: Mental Health Applications of Movement Analysis I.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 656 [Min Grade: C]

**ARTS 658 Dance/Movement Therapy Advanced Group Supervision I 1.0 Credit**

This course considers professional identity, role related issues, multidisciplinary teamwork, and healthcare system dynamics in the context of group clinical problem solving. Students discuss methods for addressing specific clinical needs in children, adolescents and adults in various settings. Instructors serve as role models and facilitators for constructive evaluation of work.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 659 Dance/Movement Therapy Advanced Group Supervision II 1.0 Credit**

This course considers professional identity, role related issues, multidisciplinary teamwork, and healthcare system dynamics in the context of group clinical problem solving. Students discuss methods for addressing specific clinical needs in children, adolescents and adults in various settings. Instructors serve as role models and facilitators for constructive evaluation of work.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 660 Dance/Movement Therapy Advanced Group Supervision III 1.0 Credit**

This course considers professional identity, role related issues, multidisciplinary teamwork, and healthcare system dynamics in the context of group clinical problem solving. Students discuss methods for addressing specific clinical needs in children, adolescents and adults in various settings. Instructors serve as role models and facilitators for constructive evaluation of work.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 661 Family Dance/Movement Therapy: A Systems Approach 2.0 Credits**

This course views the family through developmental and family systems perspectives. The course reviews nonverbal communication research and introduces students to the assessment of family interaction patterns using Dulicai's Nonverbal Assessment of Families instrument. The course will also address applications of dance/movement in family systems work.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 662 Advanced Group Dance/Movement Therapy Skills I 2.0 Credits**

This course provides support for students to advance understanding and practice of group dance/movement therapy through participation in, leadership, and review of classroom lab sessions. Course continues through two quarters.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 507 [Min Grade: C] and ARTS 564 [Min Grade: C]

**ARTS 663 Advanced Group Dance/Movement Therapy Skills II 2.0 Credits**

Continuation of ARTS 662: Advanced Group Dance/Movement Therapy Skills I.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 507 [Min Grade: C] and ARTS 564 [Min Grade: C]

**ARTS 670 Advanced Music Therapy Skills I 2.0 Credits**

Music and imagery approaches in therapy with individuals and groups are examined through laboratory sessions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 577 [Min Grade: C] and ARTS 578 [Min Grade: C]

**ARTS 671 Advanced Music Therapy Skills II 2.0 Credits**

This course will study music therapy within group formats. Students will have the opportunity to participate as leader and member of an on-going group. Group members will use role playing to simulate a variety of clinical populations. Concepts from assigned reading will be employed during group processing and un seminars.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 670 [Min Grade: C]

**ARTS 672 Multicultural Perspectives in Music Therapy 2.0 Credits**

Western ethnic and non western uses of music will be explored and adapted for use in music therapy. Also, various cultural understanding of musical behavior, beliefs about music, restricted or prohibited uses of music, and referential influences will be explored through readings and in-class musical experience.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 602 [Min Grade: C]

**ARTS 673 Advanced Music Therapy Group Supervision I 1.0 Credit**

Materials and techniques for dealing with mental, neurological and other disorders in children, adolescents and adults in various settings are related to advanced music therapy clinical practice and research in small group presentations and discussions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 610 [Min Grade: C] (Can be taken Concurrently)

**ARTS 674 Advanced Music Therapy Group Supervision II 1.0 Credit**

Materials and techniques for dealing with mental, neurological and other disorders in children, adolescents and adults in various settings are related to advanced music therapy clinical practice and research in small group presentation and discussions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 611 [Min Grade: C] (Can be taken Concurrently)

**ARTS 675 Advanced Music Therapy Group Supervision III 1.0 Credit**

Materials and techniques for dealing with mental, neurological and other disorders in children, adolescents and adults in various settings are related to advanced music therapy clinical practice and research in small group presentations and discussions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 612 [Min Grade: C] (Can be taken Concurrently)

**ARTS 676 Theories in Music Therapy II 2.0 Credits**

Course designed to provide an introductory overview of two major theoretical models of psychotherapy as they apply to music, creativity and to music therapy. The first half of the course will focus on perspectives from the psychodynamic orientation while the second half will focus on perspectives of the humanistic orientation.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 677 Advanced Music Therapy Skills III - Group 2.0 Credits**

Continuation of ARTS 671 will study music therapy within group formats incorporating wellness and mind/body approaches. Students will participate as leader and member of an on-going group to simulate a variety of clinical, caregiver, and other non-clinical (prevention) populations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 671 [Min Grade: C]

**ARTS 678 Clinical Internship Laboratory: Musical Analysis 1.0 Credit**

This seminar/lab will introduce methods of analysis of client musical expressions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 612 [Min Grade: C] (Can be taken Concurrently)

**ARTS 699 Independent Study in Creative Arts Therapy 0.5-4.5 Credits**

Independent opportunities for study may be offered to individual students who have an interest and an academic rationale to pursue in greater depth than is provided in other CAT courses. This course is structured with a contract and under close advisement.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 13 credits

**Restrictions:** Can enroll if major is CATX.

**ARTS 703 Interdisciplinary Seminar I 3.0 Credits**

This course is one in a series of four seminars in which students study the inter-relatedness between collective interdisciplinary bodies of knowledge and the CAT's. The seminar is also to be viewed as a venue for identifying knowledge gaps in the CAT's and generating original research topics.

This seminar addresses the study of the interface between aesthetics, creativity and literature and the implications for the CAT's.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 704 Interdisciplinary Seminar II 3.0 Credits**

This course is one in a series of four seminars in which students study the inter-relatedness between collective interdisciplinary bodies of knowledge and the CAT's. This seminar addresses the intersection between psychology, biology and neuroscience and the CAT's within the context of mind-body theories. The implications of study in these bodies of knowledge are considered for the development of epistemologies, theory and practice in the CAT's.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 703 [Min Grade: C]

**ARTS 705 Interdisciplinary Seminar III 3.0 Credits**

This course is one in a series of four seminars in which students study the interrelatedness between collective interdisciplinary bodies of knowledge and the CAT's. This seminar addresses the study of how psychoanalysis, philosophy, ethics and interface with the theory, practice and research in the arts therapies.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 703 [Min Grade: C] and ARTS 704 [Min Grade: C]

**ARTS 706 Interdisciplinary Seminar IV 3.0 Credits**

This course is one in a series of four seminars in which students study the inter-relatedness between collective interdisciplinary bodies of knowledge and the CAT's. This seminar addresses the study of the interface between the tenets of anthropology, sociology, cultural diversity and the arts therapies. The study of how embedded cultural thought, semiotics, and healing practices, relate to theory, practice and research in the arts therapies will be the focus of this seminar.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 703 [Min Grade: C] and ARTS 704 [Min Grade: C] and ARTS 705 [Min Grade: C]

**ARTS 712 Research I: Philosophy & Theory 3.0 Credits**

This course is the first in the doctoral research sequence. It introduces the student to the epistemological, philosophical, socio-cultural, and theoretical context for social science research and methods. The exploration of conceptual and philosophical underpinnings of nine perspectives of research guide the development of congruent methods. The significance of the research process and empirical evidence to creative arts therapies and mental health practice will be addressed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX or major is CFTX.

**ARTS 713 Research Methods II: Quantitative Methods 3.0 Credits**

This course is intended to build upon the ideas developed in Research Methods I. In that course, the theoretical, cultural, political, and ethical contexts of social science to research were explored. In this course, the quantitative research designs will be explored in more detail. Quantitative research methods and strategies will be examined and students will be expected to recognize different types of quantitative research and identify why a particular methodology is suited for a particular research agenda.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 712 [Min Grade: C]

**ARTS 714 Research Methods III: Qualitative Methods 3.0 Credits**

This course is the third in the doctoral research sequence. In this course, students will examine qualitative research methodologies. Students will learn various qualitative traditions in social science with a focus on mental health counseling, creative couple and family therapy and the creative arts therapies. Students will also learn of the threads common to qualitative methodologies while getting practical experience.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 712 [Min Grade: C] and ARTS 713 [Min Grade: C]

**ARTS 715 Innovative and Emergent Research Methods 3.0 Credits**

This course introduces students to the newest research paradigms in the Creative Arts Therapies and related fields. The philosophy and methods for mixed methods research, arts-based research, and transformative/emancipator paradigms, among others, will be presented. Experiential assignments that are geared to simulate the data collection and analyses processes within these research methods will be integral to this course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 712 [Min Grade: C] and ARTS 713 [Min Grade: C] and ARTS 714 [Min Grade: C]

**ARTS 716 Studio Based Artistic Inquiry I 3.0 Credits**

The first of this four course study module introduces the method of self-directed intrinsic learning through the arts process. The class consists of two parts: 1) creation of art in the student's art form; and 2) personal reflection, notation, and discussion of the emotional, cognitive, artistic, and intersubjective creative arts experience. Appropriate readings will be introduced to parallel the emergent experiences of the students.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 717 Studio Based Artistic Inquiry II 3.0 Credits**

The second of the four course study module continues the method of self-directed intrinsic learning through the arts process. The class consists of two parts: 1) the creation of art in the student's art form; and 2) personal reflection, notation, and discussion of the emotional, cognitive, artistic, and inter-subjective create arts experience. The focus in this course is upon the emergence of metaphor, symbolism, and the process of making meaning within the inter-subjective artistic matrix.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 716 [Min Grade: C]

**ARTS 718 Studio Based Artistic Inquiry III 3.0 Credits**

The third of the four course study module continues the method of self-directed intrinsic learning through the arts process. The class consists of two parts: 1) creation of art in the student's art form, and 2) personal reflection, notation, and discussion of the emotional, cognitive, artistic, and inter-subjective arts experience. The concepts of transference and counter-transference are explored within the context of symbolism, meaning, and the inter-subjective artistic matrix.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 716 [Min Grade: C] and ARTS 717 [Min Grade: C]

**ARTS 719 Studio Based Artistic Inquiry IV 3.0 Credits**

The final of the four course study module continues the method of self-directed intrinsic learning through the arts process. The class consists of two parts: 1) creation of art in the student's art form; and 2) personal reflection, notation, and discussion of the emotional, cognitive, artistic, and inter-subjective arts experience. The formulation of epistemologies, theories, and hypotheses based upon the integration of knowledge from the four courses contributes to the generation of CAT research topics and clinical practice issues.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 716 [Min Grade: C] and ARTS 717 [Min Grade: C] and ARTS 718 [Min Grade: C]

**ARTS 732 Quantitative Research Methods II 3.0 Credits**

This course is an advanced research course in quantitative methods. It builds on information from the previous course in biostatistics, focusing on advanced strategies for quantitative data analysis. Particular focus is on multivariate analysis, examination of power in determining sample size, assessment of instrument reliability and validity, and understanding effect size. Students will have an opportunity to explore specific data analytic strategies necessary for their proposed projects.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 712 [Min Grade: C] and ARTS 713 [Min Grade: C] and ARTS 714 [Min Grade: C] and ARTS 715 [Min Grade: C]



**ARTS 733 Qualitative Research Methods II 3.0 Credits**

This course is designed as an advanced seminar course for doctoral students interested in developing a research proposal based on qualitative research methods. Through assigned readings, class discussions, experientials, and field experience, this course examines the philosophical, theoretical, ethical and practical aspects of qualitative research methodologies with specific emphasis on those strategies that are aligned with student research interests. Students will be exposed to and practice the use of qualitative software tools and will hone manuscript writing skills in qualitative research.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 1 times for 6 credits

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 712 [Min Grade: C] and ARTS 713 [Min Grade: C] and ARTS 714 [Min Grade: C] and ARTS 715 [Min Grade: C]

**ARTS 734 Innovative and Emergent Research Methods II 3.0 Credits**

This course includes the advanced study of the practical approaches to and applications of mixed methods and arts based research paradigms. As the second of two courses, this course focuses on an in depth study of mixed methods and arts based research designs including data collection, data analysis, approaches to validity and reliability, and application of these philosophies, paradigms, and methods to evidence based practice and legitimacy in the creative arts therapies and related fields.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 712 [Min Grade: C] and ARTS 713 [Min Grade: C] and ARTS 714 [Min Grade: C] and ARTS 715 [Min Grade: C]

**ARTS 804 Dissertation Research I 1.0-9.0 Credit**

This course focuses upon choosing a research topic for the dissertation. The topic will be chosen with the assistance of seminars and ongoing faculty advisement. Once the topic is chosen, the student prepares a dissertation proposal outline that includes the identification of the problem to be studied, the purpose of the study, the rationale, the methodology and the research question. The proposal outline must be approved by the program faculty. Following approval the student begins writing the dissertation proposal.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** (ARTS 703 [Min Grade: C] and ARTS 704 [Min Grade: C] and ARTS 705 [Min Grade: C] and ARTS 706 [Min Grade: C]) and (ARTS 712 [Min Grade: C] and ARTS 713 [Min Grade: C] and ARTS 714 [Min Grade: C] and ARTS 715 [Min Grade: C] and ARTS 716 [Min Grade: C] and ARTS 717 [Min Grade: C] and ARTS 718 [Min Grade: C] and ARTS 719 [Min Grade: C])

**ARTS 805 Dissertation Research II 1.0-9.0 Credit**

In this course, with faculty advisement, the student writes the dissertation proposal. In addition the student finalizes their dissertation committee during this term. The proposal is submitted to the dissertation proposal committee and the oral defense of the proposal takes place. The student must pass the oral proposal defense in order to register for ARTS 806.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 806 Dissertation Research III 1.0-9.0 Credit**

In this course the student revises the first three chapters of the dissertation based upon the results of the Dissertation Proposal Defense. The student prepares materials for IRB submission and approval. Once the dissertation is approved by the IRB, and with the advisement of the Supervising Professor, the student establishes a data management system and begins data collection.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated multiple times for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 807 Dissertation Research IV 1.0-9.0 Credit**

This course includes the final stages of the dissertation during which the data is analyzed, the results and discussion chapters are written, and the final dissertation is defended in an oral examination.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**Prerequisites:** ARTS 804 [Min Grade: C] and ARTS 805 [Min Grade: C] and ARTS 806 [Min Grade: C]

**ARTS 808 Practicum I 3.0 Credits**

The practicum provides the practical application component of the doctoral program. With faculty advisement, students choose one of the following practical areas of study: 1) academia/teaching; 2) research; 3) clinical supervision; or 4) advanced clinical practice. The goal of the practicum is to transform knowledge learned in the doctoral program into practical application and research in the creative arts therapies fields.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 809 Practicum II 3.0 Credits**

The practicum is a continuation from ARTS 808: Practicum I which provides the practical application experience of the doctoral program. Students continue with one of the following practical areas of study: 1) academia/teaching; 2) research; 3) clinical supervision; or 4) advanced clinical practice. The goal of the practicum is to transform the knowledge learned to this point in the doctoral program into practical application and research in the creative arts therapies fields.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

**ARTS 810 Practicum III 3.0 Credits**

The practicum is a continuation from ARTS 808 and ARTS 809: Practicum I & II which provide the practical application experience of the doctoral program. Students continue with one of the following practical areas of study: 1) academia/teaching; 2) research; 3) clinical supervision; or 4) advanced clinical practice. The goal of the practicum is to transform the knowledge learned to this point in the doctoral program into practical application and research in the creative arts therapies fields.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.



**ARTS 811 Special Topics Course 3.0 Credits**

This is a special topics course that is being created for the Ph.D students in Creative Arts Therapies. This course is to be used for the students who wish to create an elective course to fulfill their elective and specialization requirements in the Ph.D Program. The elective course is an option only if no existing course in this area of specialization is offered in the Drexel University curricula. To register for this course students must obtain approval from their academic advisor.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 6 credits

**Restrictions:** Can enroll if classification is PhD.

**ARTS 899 Independent Study PHD in Creative Arts Therapy 1.0-3.0 Credit**

In this course a student can (1)pursue additional work suggested by the faculty for completion of program or course requirements, and/or (2)pursue in-depth and specialized study in an area relevant to their educational and research goals under close faculty advisement.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 9 credits

## Couple & Family Therapy

### Courses

**CFTP 500 Introduction to Systems Theory 4.0 Credits**

This course will present an overview of systems theory, particularly general systems theory and cybernetics. This course will include a critique of system theory from a feminist and cross-cultural perspective.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CFTP 501 Introduction to Family Therapy 4.0 Credits**

The purpose of this course is to introduce the student to major family therapy theories and their relationship to general systems theory and cybernetics.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CFTP 502 Introduction to Family Therapy II 3.0 Credits**

This course will include contemporary and evidence based family therapy models. Students must have successfully completed Systems Theory and Introduction to Family Therapy I prior to enrolling in this course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**Prerequisites:** CFTP 501 [Min Grade: C] and CFTP 500 [Min Grade: C]

**CFTP 503 Historical and Sociocultural Influences 4.0 Credits**

This course will introduce students to an examination of the family in a broader social cultural context. This class will explore how sociocultural concepts define and affect social, interpersonal and professional interactions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**CFTP 504 Sociocultural Influences II 3.0 Credits**

This course will teach students how to develop culturally competent couple and family therapy models. Special attention to issues of power, privilege and oppression will be infused throughout the course. Students must successfully complete Sociocultural Influences I prior to enrolling in this course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**Prerequisites:** CFTP 503 [Min Grade: C]

**CFTP 505 Bowen Theory 4.0 Credits**

This course offers a brief review of the history and development of the life work of Murray Bowen, M.D., an overview of the resulting theory of human behavior, Bowen Theory, and use of its interactive components in clinical, research and organizational applications.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CFTP 506 Contextual Theory and Therapy 4.0 Credits**

This course introduces students to present the basic tenets of Contextual Therapy and Clinical applications.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CFTP 507 Collaborative Approaches 4.0 Credits**

This course is designed to introduce students to a variety of postmodern theoretical trends in the family therapy field.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CFTP 508 Structural Family Therapy 4.0 Credits**

This course is designed to introduce students to the practice and principles of Structural Family Therapy. This course will identify interventions related to structural theory and person of the therapist.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CFTP 509 Couples Therapy 4.0 Credits**

This course will introduce students to the theory and practice of couple therapy. Couple theories, research, clinical practice and techniques will be studied and critiqued.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CFTP 510 Sex Therapy 4.0 Credits**

This course will introduce students to the theory and practice of sex therapy. Sexual disorders and sexuality will be addressed from the perspective of the individual, couple and family or origin.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**Prerequisites:** CFTP 509 [Min Grade: C] (Can be taken Concurrently)

**CFTP 511 Object Relations Theory 4.0 Credits**

The focus of this course is to understand Object Relations Theory, and its application to the treatment of individuals, couples and families.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CFTP 512 Behavioral Models of Family Therapy 4.0 Credits**

This course introduces the basic behavioral approaches to Couple and Family Therapy. It includes an exposure to Behavioral Marital, Cognitive-Behavioral, Behavioral Family Therapy applications.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CFTP 513 DSM I: Adult Psychopathology 3.0 Credits**

This is a survey of the major categories of adult psychopathological disturbance in the DSM-TR classification system. This course emphasizes the dynamics of diagnosis and biological treatment in relational therapy.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**CFTP 514 DSM II: Child Psychopathology 3.0 Credits**

This is a survey of the major categories of child psychopathological disturbances in the DSM-TR classification system. This course emphasizes the dynamics of diagnosis and biological treatments in relational therapy.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** CFTP 513 [Min Grade: C]

**CFTP 515 Introduction to Psychopharmacology 4.0 Credits**

This course is designed to present a history and the most current trends in biological treatments in psychiatric disorders. While it focuses on biological treatments the students concurrently will be exposed to historical and contemporary trends in the philosophy and practice of psychopharmacology in the profession.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CFTP 516 Addictions I: The Addictive Process 3.0 Credits**

The process of addiction will be examined in the context of the family and the larger social system. Process addictions such as sex, gambling, food, exercise, spending and shopping will be covered in this course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CFTP 517 Addictions in The Family 4.0 Credits**

The process of addiction will be examined in the context of the family and the larger social system. A wide exposure to theory and treatment models will be utilized to aid students' assessment and intervention skills in treating families with substance abuse issues.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**CFTP 518 Medical Family Therapy 4.0 Credits**

This course is designed to prepare family therapists and other health professionals to work collaboratively in addressing the unique psychosocial problems of individuals, couples and families with acute and chronic medically related concerns.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**CFTP 519 Family Violence 4.0 Credits**

This course will introduce students to research and practice of partner violence in the field of couple and family therapy.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CFTP 520 Family Life Cycle 4.0 Credits**

This course integrates the interface of individual development with the social structure of coupling and family in family life cycle framework.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**CFTP 521 Human Development 4.0 Credits**

This course will introduce students to the foundations of human development. It is designed to engage students in discussions of both traditional and contemporary human development models.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**CFTP 522 Legal and Ethical Implications in Couple and Family Therapy Practice 4.0 Credits**

This course will introduce students to ethical and legal issues that may arise in couple and family therapy treatment including confidentiality and its limits, record keeping, custody cases, abuse, privilege, licensure and informed consent.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**CFTP 523 Legal and Ethical Implications in Couple and Family Therapy Practice II 3.0 Credits**

This course is a continuation of Legal and Ethical Implications I. Students must successfully complete Legal and Ethical Implications I prior to enrolling in this course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**Prerequisites:** CFTP 522 [Min Grade: C]

**CFTP 524 Research I: Family Evaluation 3.0 Credits**

This course focuses on issues in the clinical assessment of individuals, couples, and families. Assessment will be considered through a multi-method approach that includes: qualitative interview, observational, clinician-rated or global rating scales, and self report inventories.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**CFTP 525 Research in Couple and Family Therapy 4.0 Credits**

This course focuses on research methods for couple and family therapy, and is designed to review contemporary family research methods through a multi-method approach. Issues in the clinical assessment of individuals, couples, and families will be explored from diverse contextual variables.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**CFTP 526 Person of the Therapist Experience I 2.0 Credits**

Students will use the Person of the Therapist Training Model to actively explore self of the therapist development. This course is designed to help students develop an awareness of the self within one's own family of origin.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**Prerequisites:** CFTP 530 [Min Grade: C] (Can be taken Concurrently)

**CFTP 527 Person of the Therapist Experience II 2.0 Credits**

This course is a continuation of Therapist Experience I: Person of the Therapist Training. Students will use the Person of the Therapist Training Model to actively explore self of the therapist development.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**Prerequisites:** CFTP 531 [Min Grade: C] (Can be taken Concurrently)CFTP 526 [Min Grade: C]

**CFTP 528 Person of the Therapist Experience III 2.0 Credits**

This course is a continuation of Therapist Experience I & II: Person of the Therapist Training. Students will use the Person of the Therapist Training Model to actively explore self of the therapist development.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**Prerequisites:** CFTP 532 [Min Grade: C] (Can be taken Concurrently)CFTP 526 [Min Grade: C] and CFTP 527 [Min Grade: C]

**CFTP 529 Family Policy 4.0 Credits**

The purpose of this course is to enhance student's awareness of policies that affect families in society. It will focus on policy development and process, and the role of policy in addressing family problems. Critical issues in family policy, particularly as it relates to diverse family structures and culture will also be explored.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CFTP 530 Practicum I 2.0 Credits**

The purpose of first year Practicum is for the student to develop foundational skills necessary for the practice of couple and family therapy.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**CFTP 531 Practicum II 2.0 Credits**

The purpose of first year Practicum is for the student to develop foundational skills necessary for the practice of couple and family therapy.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**Prerequisites:** CFTP 530 [Min Grade: C]

**CFTP 532 Practicum III 2.0 Credits**

The purpose of first year Practicum is for the student to develop foundational skills necessary for the practice of couple and family therapy.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**Prerequisites:** CFTP 531 [Min Grade: C]

**CFTP 533 Practicum IV 1.0 Credit**

The purpose of first year Practicum is for the student to show integration of theory and practice, develop their own style of practice and globally demonstrate comfort and competency in the role and functions of a couple and family therapist.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**Prerequisites:** CFTP 532 [Min Grade: C]

**CFTP 534 Practicum V 2.0 Credits**

The purpose of the second year Practicum is for the student to show integration of theory and practice, develop their own style of practice, and globally demonstrate comfort and competency in the role and functions of a couple and family therapist.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**Prerequisites:** CFTP 533 [Min Grade: C]

**CFTP 535 Practicum VI 2.0 Credits**

The purpose of the second year Practicum is for the student to show integration of theory and practice, develop their own style of practice, and globally demonstrate comfort and competency in the role and functions of a couple and family therapist.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**Prerequisites:** CFTP 534 [Min Grade: C]

**CFTP 536 Practicum VII 2.0 Credits**

The purpose of the second year Practicum is for the student to show integration of theory and practice, develop their own style of practice, and globally demonstrate comfort and competency in the role and functions of a couple and family therapist.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX or major is FATX.

**Prerequisites:** CFTP 535 [Min Grade: C]

**CFTP 537 Nosology & Couple and Family Therapy Practice 4.0 Credits**

This course focuses on the principles of individual diagnosis of mental illness as defined in DSM IV and the implications for relational theory.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CFTP 711 Research I: Conceptual Basis 3.0 Credits**

Identification of the theoretical basis for family systems research. Ethical and social context issues in family system research. Conceptual structure of the research process and description.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**CFTP 712 Family Theory 3.0 Credits**

Comparative analysis of major theories of family life and development, including social context issues involved in the assessment and understanding of family interaction.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**CFTP 713 Couple and Family Therapy Research and Practice Literature 4.0 Credits**

Explores historical and current literature in couple and family therapy practice, with a particular focus on evidence-based research literature. Development of a literature review on a selected CFT topic.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**CFTP 714 Professional Development Seminar I 2.0 Credits**

Self of the therapist and issues in the development of Ph.D.-level professionals. Identification of program, college, and university academic resources. Identification of professional organizations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**CFTP 715 Quantitative Methods 4.0 Credits**

Identification of various strategies for utilizing quantitative research methodology in family studies, including difference in research design, sampling, instruments, and data collection.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**CFTP 716 Advanced Family Therapy Theory and Practice 3.0 Credits**

Advanced comparative analysis of historical and contemporary approaches to family therapy theory and their practical application, with particular reference to social context implications.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**Prerequisites:** CFTP 712 [Min Grade: C]

**CFTP 717 Couple and Family Therapy Assessment and Diagnosis 3.0 Credits**

Introduction to the theory and development of instruments designed to assess relational functioning of couples and families, including research evidence and social context implications.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**CFTP 718 Professional Development Seminar II 2.0 Credits**

Self of the therapist and issues in the development of Ph.D.-level professionals. Preparation of presentations and publications for submission to professional conferences and journals.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**Prerequisites:** CFTP 714 [Min Grade: C]

**CFTP 719 Qualitative Methods 4.0 Credits**

Identification of various strategies for utilizing qualitative research methodology in family studies, including differences in research design, sampling, and data collection.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**CFTP 720 Couple Therapy Theory & Practice 3.0 Credits**

Advanced comparative analysis of historical and contemporary approaches to couple therapy theory and their practical application, with particular reference to social context implications.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**Prerequisites:** CFTP 712 [Min Grade: C]

**CFTP 721 Critical Theory in Couple and Family Therapy 3.0 Credits**

Comparative analysis of postmodern critical theories (e.g., critical race theory, feminist theory, queer theory) of family interaction and development.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**Prerequisites:** CFTP 712 [Min Grade: C]

**CFTP 722 Professional Development Seminar III 2.0 Credits**

Self of the therapist and issues in the development of Ph.D.-level professionals. Teaching couple and family therapy.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**Prerequisites:** CFTP 714 [Min Grade: C] and CFTP 718 [Min Grade: C]

**CFTP 724 Multicultural Approach to Couple and Family Therapy 4.0 Credits**

Develops cultural awareness and competency in working with families around issues of race and class.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**CFTP 725 Trauma and Families 4.0 Credits**

Assessment of the impact of both acute and chronic trauma on family members and the response of the family system. Both internal trauma (domestic violence) and external trauma investigated.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.



**CFTP 726 Professional Development Seminar IV 2.0 Credits**

Self of the therapist and issues in the development of Ph.D.-level professionals. Understanding academia, and the tenure process.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**Prerequisites:** CFTP 714 [Min Grade: C] and CFTP 718 [Min Grade: C] and CFTP 722 [Min Grade: C]

**CFTP 728 Research V: Advanced Qualitative Data Analysis 3.0 Credits**

Understanding and using software for qualitative data analysis in family studies. Subjects covered related to current or proposed student projects.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**Prerequisites:** CFTP 711 [Min Grade: C] and CFTP 715 [Min Grade: C] and CFTP 719 [Min Grade: C] and RHAB 759 [Min Grade: C]

**CFTP 729 Diverse Family Structures 3.0 Credits**

Examines the family therapy implications for working with various contemporary family structures (e.g., single-parent, multi-generational, divorced, reformed, same sex parents).

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**CFTP 730 Gender and Sexual Orientation 4.0 Credits**

This course covers gender and sexual orientation with special attention given to the intersection of race, class, culture, ethnicity, religion, age, and ability.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**CFTP 731 Professional Development Seminar V 2.0 Credits**

Self of the Therapist issues in the development of Ph.D.-level professionals. Understanding the grant writing process.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**Prerequisites:** CFTP 714 [Min Grade: C] and CFTP 718 [Min Grade: C] and CFTP 722 [Min Grade: C] and CFTP 726 [Min Grade: C]

**CFTP 732 Advanced Quantitative Research Design 4.0 Credits**

The development of a research proposal, utilizing principally a quantitative methodology.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**Prerequisites:** CFTP 716 [Min Grade: C]

**CFTP 733 Advanced Qualitative Research Design 4.0 Credits**

The development of a research proposal, utilizing principally a qualitative methodology.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**Prerequisites:** CFTP 719 [Min Grade: C]

**CFTP 734 Supervision in Couple and Family Therapy 4.0 Credits**

Preparation for supervising trainees in couple and family therapy, from a systemic perspective. Exploration of supervision models and modalities; development of a personal model of supervision.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**CFTP 735 Family Healthcare Policy 4.0 Credits**

Examines historical and contemporary trends in family healthcare policy, and its socio-political implications for families of different social positions. Relation of family therapy to ecosystemic issues investigated.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**CFTP 736 Professional Development Seminar VI 2.0 Credits**

Self of the therapist issues in the development in Ph.D.-level professionals. Ethics in CFT supervision and teaching.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**Prerequisites:** CFTP 714 [Min Grade: C] and CFTP 718 [Min Grade: C] and CFTP 722 [Min Grade: C] and CFTP 726 [Min Grade: C] and CFTP 731 [Min Grade: C]

**CFTP 741 Religion, Spirituality and Couple and Family Therapy 4.0 Credits**

Examines the organizing influence of personal belief system for both the therapist and family. The role of religious practices and differences between therapist and family investigated.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**CFTP 742 Couples Sexual Therapy 3.0 Credits**

Explores the definition of "normal" sexual functioning, and the assessment and treatment of sexual dysfunction in couples therapy.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CFTX.

**CFTP 751 Special Topics in Couple and Family Therapy 4.0-8.0 Credits**

Special topics may be offered when several students share an interest in a particular subject matter related to couple and family therapy. This course may be repeated for a maximum of eight (8) credits.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 8 credits

**Restrictions:** Can enroll if major is CFTX.

**CFTP 752 Independent Study in Couple and Family Therapy 4.0-8.0 Credits**

Independent opportunities for scholarly research may be offered to individual students who wish to pursue a particular subject related to couple and family therapy in greater depth than other courses provide.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 8 credits

**Restrictions:** Can enroll if major is CFTX.

**CFTP 801 Couple and Family Therapy Internship 1.0-20.0 Credit**

Provides an advanced one-year full time supervised placement in a clinical, research, administrative or academic setting, as determined by the program director and student.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 5 times for 20 credits

**Restrictions:** Can enroll if major is CFTX.

**CFTP 802 Couple and Family Therapy Dissertation 1.0-20.0 Credit**

Supervised research, including establishing a topic directly related to family functioning or family therapy; developing a research question and methodology for investigating it, collecting, processing, and analyzing the data; and writing a scholarly description of the research project.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 5 times for 20 credits

**Restrictions:** Can enroll if major is CFTX.

**CFTP 803 Couple and Family Therapy Dissertation Defense 1.0 Credit**

The student should enroll for this only in the anticipated final quarter of enrollment, after all other credits for the PhD have been satisfied. This course may be repeated for a maximum of six (6) credits.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 3 credits

**Restrictions:** Can enroll if major is CFTX.

**CFTP 804 Registered for Degree Only 1.0 Credit**

The student should enroll for this only in the anticipated final quarter of enrollment, after all other credits for the PhD have been satisfied. This course may be repeated for a maximum of two credits.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 2 credits

**Restrictions:** Can enroll if major is CFTX.

## Complement & Integrative Therapy

### Courses

**CIT 501 Foundations of Phytotherapy 3.0 Credits**

This course serves as a foundation for the safe, effective and rational approach to using some of the most commonly known herbs in clinical practice. Includes a review of primary uses, active constituents, pharmacological actions, known contraindications, drug interactions, potential side effects, and review of the clinical research.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CIT 502 Foundations of Complementary and Integrative Therapies 3.0 Credits**

This course provides an overview of the history of medicine and reviews the theoretical foundation of selected CIT areas, including: botanical medicine, clinical aromatherapy, homeopathy, mind-body therapy, energy therapy, and humor and healthcare. It compares the CIT world view with the conventional medical model.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CIT 503 Holistic Living For The Caregiver 3.0 Credits**

This course is designed to take students on an experiential journey toward a holistic way of living that emphasizes a mind-body-spirit approach.

Emphasizes development of healthy, nutritious eating, effective exercise, and guidelines for incorporating basic supplementation. Students stress reduction and management techniques including breathing, walking and music. Integrates spiritual concepts.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CIT 511 Spirituality, Health and Healing 3.0 Credits**

Spirituality is an essential aspect of one's identity. For some, spirituality is expressed in terms of religious concepts while for others it is less formalized yet no less significant in contributing meaning and purpose to their lives. Health, illness, and healing are three major life experiences impacted upon by one's spirituality.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CIT 512 Body Movement Therapies 3.0 Credits**

This course is an overview of the history and theory of the following movement therapies: Dance Movement Therapy, Feldenkrais, Qigong, Yoga, and Pilates. The clinical application of these movement therapies to specific patient populations will be explored. Students will have the opportunity to "experience" and episode of each of the movement therapies.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CIT 513 Yoga for the Enlightened Practitioner 3.0 Credits**

This course provides a framework for understanding and experiencing the holistic practice of yoga. It addresses yoga's ancient philosophy of universal wisdom and this philosophy's increasing relevance to humankind today. The eight limbs of yoga are incorporated for study throughout the course content modules to promote self awareness and conscious action in daily life experience. Holistic yoga application as a medical modality is reviewed based on evidence based practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CIT 514 Witches, Wise Women and Women Healers 3.0 Credits**

This course provides a chronicle of women healers throughout history from ancient to modern times--those who have served as priestesses, witches, wise women, and ultimately the healers who have helped to shape and form healthcare as we know it today. It examines the influence of religion, misogyny, science, politics, economics, and sexuality on the creation of the female archetype and the lasting impression that has influenced her role in healing practices. Students will also look at the role of modern healers and the evolving model of integrative healthcare in healing practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CIT 600 Foundations in Clinical Aromatherapy 3.0 Credits**

This course provides a strong foundation for the safe and effective use of 20 therapeutic essential oils. Includes the clinical application of each essential oil, basic essential oil organic chemistry, safety, dosages and known contraindications. Reviews essential oil biosynthesis, specific plant morphological structures, extraction methodologies, primary avenues of absorption, and an overview of the history of aromatherapy. This course adheres to the educational standards (level one) set forth by the National Association for Holistic Aromatherapy (NAHA).

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CIT 601 Integration of Complementary and Integrative Therapies 3.0 Credits**

This course is an overview of the availability, utilization and integration of complementary and integrative therapies in the United States today. Emphasis is placed on the coordination of traditional and non-traditional healing practices and the roles and responsibilities of the provider as the coordinator of the patients' health care.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** CIT 501 [Min Grade: C] and CIT 502 [Min Grade: C] and CIT 503 [Min Grade: C]

**CIT 602 Women's Integrative Health 3.0 Credits**

This course presents an Integrative Mindy-Body approach for supporting various states of health imbalance specific to women's health. Applied integrative strategies highlight the use of dietary and lifestyle changes, nutritional supplementation, botanical medicines and other specific healing modalities. Take into account the eastern philosophy of anatomy energetics, the integration of the physical and the spiritual, psyche and soma, into a harmonious whole for addressing specific women's health conditions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** CIT 501 [Min Grade: C] or CIT 502 [Min Grade: C] or CIT 503 [Min Grade: C]

**CIT 617 Qigong: Bio-energy Therapy 3.0 Credits**

This course teaches Qigong in the context of traditional Oriental medicine, and includes body movement and energy medicine for health and healing. The course provides students with principles of bio-energy (Qi) and practical ways of using them for healing. The key component of the course includes lectures, slow relaxing exercises, Qi meditations, and self-healing treatment techniques for specific symptoms. Lectures cover principles, history of bio-energy therapy, self-healing and treatment for special symptoms, case studies, and effects.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CIT 618 Principles of Holistic Nursing 3.0 Credits**

This course provides a foundation of holistic nursing knowledge, understanding and insight, including holistic nursing theories, ethics, and beliefs. The course will focus on the American Holistic Nurses Association's Scope and Standards of practice, as well as the Holistic Nursing Core Values. Students will explore the concept of healing, evaluate current local and national trends and environmental conditions that affect health, and identify ways to incorporate the concepts of holistic nursing into professional practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CIT 619 Principles of Bioenergy Therapies 3.0 Credits**

Principles of Bioenergy Therapies examines the concept of human bioenergy fields and the healing modalities known as energy therapies that rebalance the bioenergy field to promote healing. The history and research into energy therapies is covered as students explore the paradigm shift in treatment of individuals in Western medicine.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CIT 620 Integrative Meditation: Where East Meets West 3.0 Credits**

This course provides an introduction to the practice of meditation from Eastern civilizations to the West by presenting an overview of the major categories, including: Zen, Vipassana/Insight, Shambhala, Mindfulness and Centering Prayer. The course focuses on the experiential cultivation of both "formal" and "informal" mindfulness meditation practices as a foundation for positive health behaviors and psychological and emotional resilience that can be effectively utilized across the adult life span.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CIT 621 Spirituality in Hospice and Palliative Care 3.0 Credits**

This course offers health care professionals the guidelines and tools necessary to provide compassionate spiritual care to patients and their families at the end of life, by examining spiritual beliefs, rituals and opportunities through the combined effort of patient, family and a multidisciplinary health care team. Techniques will be explored that acknowledge and support individual goals, values, wishes, through discovery, reverence, and tending of the spirit. This course will examine the ancient texts of death and dying, the use of scripture, and the unique energy of the ancient hospices in Europe.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CIT 622 Holistic Therapies in Hospice and Palliative Care 3.0 Credits**

This course introduces health care professionals to the use of complementary and integrative therapies (CIT) used during the end of life. Methods for assessment, the influence of the environment in healing, and therapeutic interventions for various stages of patient concerns will be explored. The current use of proven modalities in end of life care will be discussed, as well as the potential for expanding current practice. Care of the dying will be viewed from many disciplines, clinical and domestic.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CIT 623 Cross Cultural Issues 3.0 Credits**

Culture plays an important role in an individual's view of death and in a health care provider's provision of care at the end of life. This course will explore culture, the learned behaviors, beliefs, and values that define an individual's experience, affecting their views of health, illness, dying, and life after death. The health care provider will develop skills necessary to recognize, assess, and address the psychological, social/religious issues, and cultural taboos realizing that different cultures may require significantly different approaches, ultimately, providing a meaningful context for dying.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CIT 624 Foundations of Integrative Addiction Therapy 3.0 Credits**

This course introduces the health care professional to the foundational principles of integrative healthcare. Reviews the neuroscience of addiction and the neuronutritional model of addiction. It provides the student with an understanding of complementary and integrative therapies (CIT) which can be used during the recovery phase of addiction treatment. Care of the recovering client will be viewed from many disciplines, allowing practitioners the perspective needed to enhance the physical, emotional/mental and spiritual aspects of healing throughout the recovery process.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CIT 625 Spirituality, Empowerment, and Transformation 3.0 Credits**

Advanced recovery from addiction requires the development of an expanded sense of self that is communal and spiritual in awareness. This course serves as an introduction to the significance of spiritual development using the 12-steps as spiritual practice and the wisdom of the great spiritual leaders, philosophers, and psychologists of our time. This course offers insight and practices that can energize the spirit, increase inner peace and work at the deepest root of the addiction process, providing students with the tools necessary to promote successful long-term recovery of those suffering from addictions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CIT 628 Special Topics in Complementary and Integrative Therapies 3.0 Credits**

This course covers special topics of relevance and significance to complementary and integrative therapies in health care. This course may be repeated up to three times for credit, as topics vary from term to term.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 9 credits

**CIT 631 Introduction to Nutritional Neuroscience 3.0 Credits**

This course explores the emerging interdisciplinary field of nutritional neuroscience that relates directly to many healthcare and quality-of-life issues at the forefront of modern society, in particular to addictions. Students will review the foundational neuroscience of addiction and the neuronutritional model of addiction. This course examines specific neuronutritional agents that are now used for their effects on behavior or brain function as it relates to addictions, the primary focus of the field of nutritional neuroscience.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**CIT 690 Independent Study 3.0 Credits**

The student works under the guidance of a faculty member to study in depth a topic related to his or her program of study. Independent study courses may be undertaken when there is no specific formal coursework available to support the student's program of study. Specific objectives and requirements are negotiated individually and students will sign an Independent Study Contract. This course may be repeated three times for credit as topics vary from term to term.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 9 credits

## Medical Family Therapy

### Courses

**MFTP 518 Medical Family Therapy 3.0 Credits**

This course is designed to prepare family therapist and other health professionals to work in a collaborative manner addressing the unique psychosocial problems of individuals, couples, and families with acute and chronic medically related concerns.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**MFTP 537 Multicultural & Family Systems Approach to Healthcare 4.0 Credits**

This course builds on Introduction to Family Therapy Theory and Concepts by extending foundation knowledge on serving diverse families who are challenged by particular health and developmental problems.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** CFTP 501 [Min Grade: C]

**MFTP 538 Issues and Trends in Health Policy for Families 3.0 Credits**

This course will provide the clinician with an introduction to the history structure and function of health policy. The overall learner objective for clinicians is to analyze health policies that impact children, families, and aging populations. Students need to learn about how health care policies are developed, implemented, evaluated, and changed by policy makers and interest groups and how such policies affect the lives of clients and their families.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

## Neuroscience

### Courses

**NEUR 507 Neuroscience I 3.0 Credits**

NEUR 507 is the first of two courses that provide a foundation in the structure and function of the nervous system. Clinical correlations relate the material to effective clinical practice and provide a neurophysiological basis for pathological entities described in the student's clinical neurology courses and commonly encountered in the clinic.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.



**NEUR 508 Neuroscience II 2.0 Credits**

The course is designed to provide the student with a strong foundation in the structure and function of the nervous system. Clinical correlations are provided throughout the course to: 1) the necessity for understanding the material for effective clinical practice and 2) Provide a neurophysiological basis for various pathological entities described in their clinical neurology courses and commonly encountered in the clinic.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**NEUR 534 Neuroscience 3.0 Credits**

This course describes: structure and functions of the human central nervous system; neurons; basic topography of the spinal cord and brain; major sensory and motor pathways; higher cortical functions. Neurological deficits resulting from stroke, brain trauma and other neuropathological processes; as well as implications for rehabilitation and psychotherapy are presented.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CATX.

## Nutrition & Food Science

### Courses

**NFS 510 Profession of Dietetics 3.0 Credits**

This course will introduce the learner to the profession of dietetics. Topics covered will include: educational preparation and credentialing of registered dietitians and the organizational units responsible for these functions; professional roles and practice areas of dietitians; professional responsibilities of the credentialed dietitian; the Academy of Nutrition and Dietetics and other professional organizations; and, trends affecting the dietetics profession.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is HNUT.

**NFS 525 Nutritional Assessment Through the Life Cycle 3.0 Credits**

This course is designed to introduce students to and provide hands-on experience with the four primary methods of nutritional assessment: dietary, anthropometric, laboratory, and clinical assessment. Assessment methodology appropriate to each stage of the life cycle, including infants, children, adolescents, adults and elderly, will be used.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NFS 530 Macronutrient Metabolism 3.0 Credits**

Covers absorption, utilization, digestion, storage, and excretion of carbohydrates, lipids, and proteins.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NFS 531 Micronutrient Metabolism 3.0 Credits**

Covers absorption, utilization, digestion, storage, and excretion of vitamins, macrominerals, and microminerals.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NFS 543 Medical Nutrition Therapy I 3.0 Credits**

In-depth coverage of nutrition assessment and the Nutrition Care Process. Pathophysiology of selected acute & chronic disease states and their associated medical problems, with focus on using the Nutrition Care Process to meet the medical nutrition needs of patients.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NFS 525 [Min Grade: C] and BIO 610 [Min Grade: C]

**NFS 544 Medical Nutrition Therapy II 3.0 Credits**

Pathophysiology of selected acute & chronic disease states and their associated medical problems, with focus on using the Nutrition Care Process to meet the medical nutrition needs of patients.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NFS 543 [Min Grade: C]

**NFS 545 Nutrition in Critical Care 3.0 Credits**

Pathophysiology of selected critical care conditions and their associated medical problems, and the use of the Nutrition Care Process to meet the medical nutrition needs of patients. Also covers nutrition support including use of enteral and parenteral nutrition.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NFS 544 [Min Grade: C]

**NFS 546 World Nutrition 3.0 Credits**

Discusses the nutritional status of peoples in various parts of the world, the incidence and treatment of deficiency diseases, problems of the food supply and efforts to improve it, and other timely aspects of this comprehensive problem.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NFS 550 Foodservice Systems Management 3.0 Credits**

In-depth treatment of food purchasing, financial management of foodservices, cost controls, marketing in foodservice, equipment layout and design, and management/leadership theories and applications.

**College/Department:** College of Arts and Sciences

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is HNUT.

**NFS 601 Research Methods 3.0 Credits**

Covers current techniques and evaluation methods for human nutrition research. Focuses on human subject aspects and critique of the literature.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NFS 602 Methods of Nutrition Research 3.0 Credits**

Laboratory methods current in nutrition research techniques. The emphasis will be on methods of instrumental analysis.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NFS 609 Individualized Supervised Practice Pathway 1.0-3.0 Credit**

The Individualized Supervised Practice Pathway is designed to prepare competent, entry-level dietitians for positions in medical nutrition therapy, outpatient nutrition counseling, food service management and community nutrition. The program will provide a curriculum for the student to experience and practice the many roles of the dietitian under the supervision of the preceptor.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 13 times for 39 credits

**NFS 625 Nutrition and Exercise Physiology 3.0 Credits**

The principles of exercise science and their interaction with nutrition are explored in-depth. The physiological and biochemical effects of training are examined in relation to sports performance and prevention of chronic diseases prevalent in developed countries.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NFS 629 Readings in Nutrition Science 3.0 Credits**

Covers advanced nutritional aspects of selected subjects in metabolism via an in-depth survey of current research literature in the field.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NFS 630 Nutrition Counseling 3.0 Credits**

Emphasizes nutrition counseling techniques for use with individuals and small groups, including development of nutrition education materials as well as verbal and non verbal communication skills.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NFS 634 Women's Issues in Nutrition 3.0 Credits**

Deals with the interface between nutrition, medicine, psychology, sociology, and anthropology as it relates to the female life cycle. Emphasizes pregnancy, lactation, maternal obesity, eating disorders, menopause, and society's roles for women in relation to food.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NFS 640 Nutrition of the Schoolchild 3.0 Credits**

Covers normal growth patterns and nutrition requirements for children of school age (K to 12). Stresses nutritional problems of schoolchildren, attitudes toward food, the role of the school lunch in nutrition, and evaluation of school lunches in relation to total nutritive needs.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NFS 641 Nutrition in Later Maturity 3.0 Credits**

Considers physiologic changes and nutritional requirements in later maturity and applications to dietary planning in the home and in the institution. Stresses economic, management, and community resources for meeting dietary needs and special nutrition problems of the elderly.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NFS 680 Special Topics 0.5-9.0 Credits**

Covers selected topics of study in the field of nutrition and food.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated multiple times for credit

**NFS 690 Community Nutrition 3.0 Credits**

Surveys nutrition services of city, state, and national organizations.

Develops suggestions for the development of a community program with appropriate educational methods and illustrative materials.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NFS 695 Nutrition Education in K-12 3.0 Credits**

Curriculum development for nutrition and food study in elementary and secondary schools; instructional materials; methods of teaching.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NFS 696 Methods of Teaching Dietetics 3.0 Credits**

Analyzes teaching situations in dietetics, including development of educational programs and instructional methods and materials for implementation in a clinical or management dietetics setting.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NFS 732 Weight Management and Eating Disorders 3.0 Credits**

Investigate current aspects of the treatment of obesity and eating disorders through nutrition therapy by studying research from medical science, nutrition knowledge, and dietary modalities.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NFS 799 Independent Study 12.0 Credits**

Provides an independent study in human nutrition.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated multiple times for credit

**NFS 849 Readings in Therapeutic Nutrition 3.0 Credits**

Covers current literature pertaining to nutrition in various conditions such as malabsorption, inborn errors of metabolism, diabetes mellitus, diseases of the gastrointestinal tract, diseases of the liver, and surgical conditions. Discusses nutrition assessment and parenteral and enteral nutrition.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NFS 997 Research 1.0-12.0 Credit**

Requires students, in consultation with an appropriate faculty adviser, to identify a specific food and/or nutrition problem area of mutual interest, carefully document its background, and present research reports for study. All thesis students use this number. May be repeated for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

# Nursing

## Courses

### **NURS 500 Confronting Issues in Contemporary Health Care Environments 3.0 Credits**

Confronting Issues in Contemporary Health Care Environments examines Health care policy and policies in terms of contemporary issues related to advanced practice nursing, health care access, quality and cost. The focus of this course is the critical analysis of health policy and legal issues.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

### **NURS 501 Dimensions of Human Sexuality in Health & Illness 3.0 Credits**

This course explores the multiple dimensions of sexual expression as one of the central elements of human experience. Using a developmental framework, students explore physiological, psychological and social facets of human sexuality in the context of health and illness. The course will assist health care clinicians to address sexuality as an aspect of holistic care of clients. Students should be aware that course materials may be sexually explicit and the course may involve topics that are controversial in nature.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

Cannot enroll if classification is Freshman or Junior or Pre-Junior or Sophomore

### **NURS 502 Advanced Ethical Decision Making in Health Care 3.0 Credits**

The focus of this course is to develop the student's ability to identify ethical dilemmas, apply moral reasoning, and then take action necessary to resolve the dilemma. Questions of clinical and applied ethics, including basic principles and theories that support and challenge the decision making process will be examined from various perspectives to address the moral difficulties the advanced practice nurse is likely to encounter.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

### **NURS 503 Basic Principles of Nurse Anesthesia 3.0 Credits**

This course is designed to provide the theoretical knowledge of basic equipment utilized in the routine care of the surgical patient. The objectives of this course are geared toward immediate application of the acquired anesthesia knowledge in the clinical setting.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

### **NURS 504 Overview of Nurse Anesthesia 3.0 Credits**

This course is designed to provide an overview of nurse anesthesia principles and basic anesthesia skills utilized in the routine care of the surgical patient. The lecture content is reinforced in the simulation lab experience. The objectives of this course are geared toward immediate application of the acquired knowledge in the simulated laboratory experience and for integration in the clinical setting.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

### **NURS 505 Chemistry and Physics 3.0 Credits**

Nurse anesthesia students examine physical phenomena relevant to anesthesia and anesthesia equipment. Basic organic chemistry, chemistry of drugs and specific technologies will be discussed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**Prerequisites:** NURS 503 [Min Grade: C] and NURS 504 [Min Grade: C] and NURS 549 [Min Grade: C]

### **NURS 506 Health Policy 4.0 Credits**

The purpose of this course is to enhance the graduate student's ability to examine and evaluate social policy and its impact on health policy, health status and systems, delivery of care and on nursing practice, education and research.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

### **NURS 507 Nurse Anesthesia Pharmacology I 3.0 Credits**

This course will provide an overview and in-depth analysis of general principles and concepts related to pharmacology of anesthetic agents used in clinical practice. Perioperative fluid management and blood components, an overview of general pharmacokinetics and pharmacodynamics principles, pharmacologic mechanism of action, effects on organ systems and considerations related to age and pathophysiological conditions will be explored.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**Prerequisites:** NURS 503 [Min Grade: C] and NURS 504 [Min Grade: C] and NURS 549 [Min Grade: C]

### **NURS 508 Nurse Anesthesia Clinical Practicum I 1.0 Credit**

Clinical Practicum courses are designed to enable the student to apply and integrate the knowledge gained in pre and co-requisite courses to learn the skills to safely administer anesthesia to patients undergoing a wide variety of surgical or diagnostic procedures. These clinical practicums build on the student's previous anesthesia experiences each quarter.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**Prerequisites:** NURS 503 [Min Grade: C] and NURS 504 [Min Grade: C] and NURS 549 [Min Grade: C] and NURS 526 [Min Grade: C]

**NURS 509 Health Promotion 4.0 Credits**

This course addresses the health of individuals and populations from a systems perspective. Students investigate leading causes of illness and injury, develop and evaluate a multi-level intervention model. Focus is on the Health People 2010. Concepts and tools of continuous improvement are utilized.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 510 Advanced Principles of Nurse Anesthesia I 3.0 Credits**

This course builds on the foundation learned in prerequisite courses. Emphasis is on the development of advanced knowledge of the respiratory system and cardiovascular systems. A comprehensive study of the physiology, pathophysiology and the relationship to patient management is the focus of the course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**Prerequisites:** NURS 520 [Min Grade: C] and NURS 505 [Min Grade: C] and NURS 507 [Min Grade: C] and NURS 508 [Min Grade: C]

**NURS 511 Nurse Anesthesia Pharmacology II 3.0 Credits**

This course will provide a continued in-depth analysis of general principles and concepts related to pharmacology of anesthetic agents used in clinical practice. The objective of this course are geared toward immediate application of the acquired knowledge for integration in the clinical setting. Additional drugs will be presented.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**Prerequisites:** NURS 507 [Min Grade: C]

**NURS 512 Nurse Anesthesia Clinical Practicum II 1.0 Credit**

Clinical Practicum II will provide the opportunity for the novice student to participate in the anesthesia management of healthy patients undergoing uncomplicated surgical and/or diagnostic procedures.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**Prerequisites:** NURS 505 [Min Grade: C] and NURS 507 [Min Grade: C] and NURS 508 [Min Grade: C] and NURS 520 [Min Grade: C]

**NURS 513 Research and Theory I 4.0 Credits**

The course is designed to provide professional graduate students with the skills necessary to evaluate the relationship between practice and published research. The course content includes an overview of research concepts, ethics in research, literature reviews, quantitative and qualitative research designs, research methods, and data analysis.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 514 Leadership in Nursing 3.0 Credits**

This course addresses key concepts and skills required of nurses in today's health care climate, including the ability to analyze situations from a systems perspective, identity and attend to the context in which information is given and perceived, and to enhance interactions by clarifying communication.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 515 Advanced Principles of Nurse Anesthesia II 3.0 Credits**

This course extends the knowledge learned in basic principles. During this quarter, students learn anesthetic management principles for regional anesthesia, orthopedic surgery, renal patients, morbidly obese patients and pediatrics. Important concepts include anatomical, physiological and pathophysiological, and pharmacological principles.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**Prerequisites:** NURS 510 [Min Grade: C] and NURS 511 [Min Grade: C] and NURS 512 [Min Grade: C] and NURS 521 [Min Grade: C]

**NURS 516 Nurse Anesthesia Clinical Practicum III 2.0 Credits**

Clinical Practicum III will provide the student the opportunity to administer anesthesia to patients scheduled for more complex surgical procedures and who may also exhibit significant pathophysiology. Students will begin to analyze the patient's physiological response to intra-operative surgical events and adjust the anesthetic and regional anesthesia.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**Prerequisites:** NURS 521 [Min Grade: C] and NURS 510 [Min Grade: C] and NURS 511 [Min Grade: C] and NURS 512 [Min Grade: C]

**NURS 517 Nurse Anesthesia Clinical Practicum IV 3.0 Credits**

Clinical practicum IV will provide the student the opportunity to administer anesthesia to patients scheduled for more complex surgical procedures and who may also exhibit significant pathophysiology. Students will begin to analyze the patient's physiological response to intra-operative surgical events and adjust the anesthetic and regional anesthesia.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**Prerequisites:** NURS 515 [Min Grade: C] and NURS 516 [Min Grade: C] and NURS 522 [Min Grade: C]

**NURS 518 Advanced Principles of Nurse Anesthesia III 3.0 Credits**

The content presented will enable the student to incorporate previous learned knowledge of physiology, pathophysiology, pharmacology, and patient management into the care of subspecialty populations with more complex medical problems. The anesthesia management of the pregnant, cardiothoracic, neurosurgical and burn patient will be presented.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**Prerequisites:** NURS 515 [Min Grade: C] and NURS 516 [Min Grade: C] and NURS 522 [Min Grade: C]

**NURS 519 Forensic Science Foundations 3.0 Credits**

This course examines the defining characteristics of offender behavior including the importance of obtaining complete victim histories, investigation of a motive and suspects as it relates to healthcare and practice. Investigative and therapeutic factors and approaches including examination of environment, place, time and crime scene indicators will be explored.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 6 credits



**NURS 520 Advanced Physiology 3.0 Credits**

This course presents the essentials of organ system function in humans, with an emphasis on the integration of neural and hormonal mechanisms in the control of organ system function. This course is limited to students in the Nursing Anesthesia Program of the College of Nursing and Health Professions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**NURS 521 Advanced Pathophysiology I 3.0 Credits**

A detailed discussion of the disturbances of normal function and basic mechanisms involved in the diseases of the major organ systems and the general aspects of the common human pathophysiological conditions and syndromes. This course includes general pathological processes that are specific to the cardiovascular system.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 520

**NURS 522 Advanced Pathophysiology II 3.0 Credits**

A detailed discussion of the disturbances of normal function and basic mechanisms involved in diseases of the major organ systems and the general aspects of the common human pathophysiological conditions and syndromes. This course includes respiratory, renal, digestive, hepatobiliary and pancreatic pathophysiology.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 521

**NURS 523 Advanced Pathophysiology III 3.0 Credits**

A detailed discussion of the disturbances of normal function and basic mechanisms involved in diseases of the major organ systems and the general aspects of the common human pathophysiological conditions and syndromes. This course includes the endocrine, reproductive, sensory/motor pathways, pain pathways, neuromuscular, neurological, and skeletal pathophysiology.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 522 [Min Grade: C]

**NURS 524 Analysis and Application of Forensic Trends and Issues 3.0 Credits**

This course requires synthesis of information gathered from previous core courses with application to actual forensic case studies from a healthcare perspective. Students will analyze characteristics of offender behavior, victim histories and trajectories, investigative factors and related approaches are based on integration of theory and research with translation and application to forensic practice within their discipline.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 6 credits

**Prerequisites:** NURS 509 [Min Grade: B] and NURS 528 [Min Grade: B] and NURS 533 [Min Grade: B]

**NURS 525 Advanced Physiology 4.0 Credits**

This course builds on the student's knowledge of anatomy and physiology, emphasizing the complex nature of bodily function from the molecular to the systems level. The focus is on integrating the individual functions of all the body's cells into a total functional whole.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 339 [Min Grade: C]

**NURS 526 Information, Innovation & Technology in Advanced Nursing Practice 3.0 Credits**

This course is designed to provide an in-depth introduction to information systems and technologies that support practice and improve patient care and outcomes. Students develop an understanding of relationships between patient care and information and data issues involved in clinical practice in addition to examining informatics issues within complex healthcare systems.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**NURS 527 Evidence Based Approaches to Practice 3.0 Credits**

This course focuses on using research to guide evidence-based practice. Communication, collaboration, and decision making skills from a multidisciplinary approach essential to collect, evaluate, and apply research to practice will be emphasized. During this course the student will learn to (1) conduct efficient, thorough searches of the research literature; (2) evaluate the quality of a body of research through an appraisal of design, methodology, and data analysis; (3) summarize the findings from an overall body of research; and (4) apply research evidence to issues of current nursing practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: C] and RSCH 523 [Min Grade: C]

**NURS 528 Victimology – Contemporary Trend 3.0 Credits**

This course examines the wide range of victimization experiences from the perspective of the crime victim, the offender, families, and the healthcare community. Basic tenets of assessment and intervention with victims and survivors are explored. Emphasis will focus on understanding the etiologic and motivation issues as well as response patterns to victimization and perpetration dynamics from a healthcare provider perspective.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 6 credits

**NURS 529 Foundations of Complementary and Integrative Therapies 3.0 Credits**

This course provides an overview of the history of medicine, and reviews the theoretical foundation of selected CIT areas including: botanical medicine, clinical aromatherapy, homeopathy, mind-body therapy, energy therapy, and humor and healthcare. It compares the CIT world-view with the conventional medical model.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 530 Anesthesia Seminar 1.0 Credit**

This seminar will integrate the academic and practical knowledge the student has acquired in the nurse anesthesia curriculum. Students will work independently with a faculty advisor to develop a State of the Science Paper on a topic relevant to anesthesia practice. Students are required to perform a comprehensive review of the literature, provide an educational hand-out to their colleagues and present the information using multimedia approaches.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**Prerequisites:** NURS 515 [Min Grade: C] and NURS 516 [Min Grade: C] and NURS 522 [Min Grade: C]

**NURS 531 Epidemiology in Action: Tracking Health & Disease 3.0 Credits**

Assists students to examine and actualize the processes for development and measurement of outcomes in health care in the context of evidence-based practice. Explores epidemiologic theories and models to promote understanding of risks and disease pathogenesis. Examines the dynamic balance between health and illness. Understanding of health assessment, risk identification and outcomes measurement is emphasized.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RSCH 519 [Min Grade: C]

**NURS 532 Evaluation of Health Outcomes 3.0 Credits**

Examines standard models for evaluation of health outcomes for clients. Clinical interventions and outcomes for specific populations will be explored from the client, provider, and payer perspective, using selected methodological and evaluative approaches. The impact of health care, disease management and outcomes will be examined in relation to public policy and legislation. Key steps in measuring clinical outcomes are explored in developing an analysis plan for a selected clinical population.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is HI or major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: C]

**NURS 533 Forensic Mental Health 3.0 Credits**

This course examines the various foundations of offender behavior including theory, research and motivational models. Basic tenets of assessment and intervention with offenders will be examined from a healthcare perspective.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 6 credits

**NURS 534 FNP I: Primary Care of the Emerging Family 5.0 Credits**

This is the first course in a series of five clinical courses for the graduate student studying to become a family nurse practitioner. This course introduces the FNP student to the health care needs and dynamics of the emerging family throughout the lifecycle. Clinical practicum of 160 hours occurs concurrently.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 556 [Min Grade: B] and NURS 664 [Min Grade: B]

**NURS 535 FNP II: Primary and Episodic Care of Infants, Children and Adolescents 5.0 Credits**

This is the second course in a series of five clinical courses for the graduate student who is studying to become a family nurse practitioner. This course is designed to introduce the FNP student to primary and episodic care of infants, children, adolescents, and their families. Clinical practicum of 160 hours occurs concurrently.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: B] or RSCH 523 [Min Grade: B] or NURS 500 [Min Grade: B] or NURS 502 [Min Grade: B] or NURS 526 [Min Grade: B] or NURS 527 [Min Grade: B] or NURS 548 [Min Grade: B] or NURS 549 [Min Grade: B] or NURS 550 [Min Grade: B] or NURS 556 [Min Grade: B] or NURS 664 [Min Grade: B] or NURS 534 [Min Grade: B]

**NURS 536 FNP III: Primary Care of Adults and Older Adults Across the Adult Age Spectrum I 5.0 Credits**

This is the third in a series of five clinical courses for the graduate student who is studying to become a family nurse practitioner. The course is designed to introduce the FNP student to primary care of the adult-older adult population across the age spectrum. Clinical practicum of 160 hours occurs concurrently.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 556 [Min Grade: B] and NURS 664 [Min Grade: B] and NURS 534 [Min Grade: B] and NURS 535 [Min Grade: B] and NURS 575 [Min Grade: B]

**NURS 537 FNP IV: Primary Care of Adults and Older Adults Across the Adult Age Spectrum II 5.0 Credits**

This is the fourth in a series of five clinical courses for the graduate student who is studying to become a family nurse practitioner. The course is designed to build on topics from FNP III, Primary Care of the Adult-Older Adult I, with a focus on care of the adult-older adult with multisystem and chronic illness that impacts quality of life. Clinical practicum of 160 hours occurs concurrently.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 556 [Min Grade: B] and NURS 664 [Min Grade: B] and NURS 534 [Min Grade: B] and NURS 535 [Min Grade: B] and NURS 536 [Min Grade: B] and NURS 575 [Min Grade: B]

**NURS 538 FNP V: Integrative Practicum in Family Practice Across the Lifespan 4.0 Credits**

This is the final clinical courses for the graduate student studying to become a family nurse practitioner. This course is designed to assist the student to apply knowledge from all previous clinical courses to guide them in the transition from student to practitioner. Clinical practicum of 80 hours occurs concurrently.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 556 [Min Grade: B] and NURS 664 [Min Grade: B] and NURS 534 [Min Grade: B] and NURS 535 [Min Grade: B] and NURS 536 [Min Grade: B] and NURS 537 [Min Grade: B]

**NURS 539 Holistic Living for the Caregiver 3.0 Credits**

This course is designed to take the student on an experiential journey toward a holistic way of living that emphasizes a mind-body-spirit approach. Emphasizes development of healthy, nutritious eating, effective exercise, and guidelines for incorporating basic supplementation. Students stress reduction and management techniques including breathing, walking and music. Integrates spiritual concepts.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 540 ASD I: Introduction to Autism Spectrum Disorder 3.0 Credits**

This course will provide an overview of the public health problem of autism spectrum disorder including natural history, etiology, rising prevalence, risk factors, and core features of ASD. The student will be introduced to the important and evolving role of nurses in the life-long care of people with ASD.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 541 ASD II: Health and Behavioral Care Planning and Intervention for Children and Adolescents 3.0 Credits**

This course will provide an overview of the range of treatments for ASD and pharmacotherapy for symptom managements of the pediatric population across the lifespan. A family centered approach to care is emphasized, developing understanding of the medical, nursing and behavioral management of the range of functional problems and core features across the lifespan.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 540 [Min Grade: B]

**NURS 542 ASD III: Health and Behavioral Care Planning and Intervention for Adults with ASD 3.0 Credits**

Students acquire in-depth knowledge of the various treatment approaches to ASD and learn strategies for managing acute and chronic health and behavioral problems experienced by adults with ASD. Core features manifest differently based on age, environmental stressors, therefore the students learn how to predict and prevent problems in a variety of health care settings and circumstances as individuals with ASD require treatment for other health conditions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 540 [Min Grade: B]

**NURS 543 ASD IV: Nursing Leadership and Advocacy for ASD 3.0 Credits**

Students will examine the role of nursing in the life-long care of people with ASD and identify ways to expand the scope of nursing care for this vulnerable population. Practical issues of collaboration and reimbursement for services will be explored. Students will explore the availability of services in the community and discuss approaches to patient advocacy. Students will identify and implement an independent project.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** (NURS 540 [Min Grade: B] or NURS 541 [Min Grade: B] or NURS 542 [Min Grade: B]) and (NURS 541 [Min Grade: B] or NURS 542 [Min Grade: B])

**NURS 548 Advanced Pathophysiology 3.0 Credits**

Building on a foundation of normal physiology, students are exposed to the major disturbances of normal function and the basic mechanisms involved in disease of the major organ systems. The course includes discussion of the general aspects of the common human pathophysiological conditions and syndromes.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 549 Advanced Pharmacology 3.0 Credits**

This course is designed to build on prior pharmacologic study of actions and effects of drugs on the human system across the life span. Students will study pharmacologic mechanisms of action, effects on organ systems, routes of administration, pharmacokinetics, therapeutic uses, considerations related to age and physiologic state, adverse reactions, contraindications, and drug interactions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 550 Advanced Clinical Assessment & Diagnostic Reasoning Across the Lifespan 4.0 Credits**

This Course is designed to introduce the experienced clinical nurse to diagnostic reasoning, advanced clinical history taking, and physical assessment for individuals/families across the life span. Course content focuses on the concepts, theory and practice related to obtaining comprehensive health histories for patients of all ages and states of health.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 500 [Min Grade: C] and NURS 502 [Min Grade: C] and RSCH 519 [Min Grade: C] and INFO 526 [Min Grade: C] and NURS 527 [Min Grade: C] and NURS 548 [Min Grade: C] and NURS 549 [Min Grade: C] and RSCH 523 [Min Grade: C]

**NURS 551 Foundations of Phytotherapy: Clinical Applications of Herbal Therapy 3.0 Credits**

This course serves as a foundation for the safe, effective and rational approach to using some of the most commonly known herbs in clinical practice. Includes a review of the primary uses, active constituents, pharmacological actions, known contraindications, drug interactions and potential side effects, as well as a review of the clinical research and historical significance of each herb.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 554 Pharmacology for Adult-Gerontology Acute Care Nurse Practitioners 3.0 Credits**

This course is designed to prepare the Adult-Gerontology Acute Care Nurse Practitioner student for the safe prescribing and monitoring of therapeutic agents across the spectrum of adult-older adult patient population in acute and critical illness.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is ACNP.

**Prerequisites:** NURS 549 [Min Grade: B] and NURS 548 [Min Grade: B]

**NURS 555 Psychopharmacology Across the Lifespan 3.0 Credits**

This course provides scientific knowledge of psychopharmacology and its application to treatment of clients with psychiatric disorders across the lifespan. The course focuses on advanced concepts in neuroscience, pharmacokinetics and pharmacodynamics of psychotropic drugs in the management of targeted symptoms of psychiatric disorders in clients across the lifespan.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 664 [Min Grade: B]

**NURS 556 Pharmacology for Family Nurse Practitioners 3.0 Credits**

This course is designed to prepare the FNP students for the safe managing and prescribing of therapeutics. Students will study pharmacologic mechanisms of action, effects on organ systems, routes of administration, pharmacokinetics, therapeutic uses, considerations related to physiologic state, adverse reactions, contraindications and drug interactions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 548 [Min Grade: C] and NURS 549 [Min Grade: C]

**NURS 557 Leadership and Stewardship in the Health Professions 3.0 Credits**

Changes in the health care system are demanding practitioners with well-honed leadership skills and with a sense of stewardship. This course explores the concepts of leadership and stewardship from a historical and contemporary perspective with particular application to the health professions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is HI or major is NURS.

**NURS 558 Economics of Healthcare Management & Policy 3.0 Credits**

Understanding the economic and financial issues that affect today's health care environment is required for the nurse providing evidence-based services to manage and compete effectively in the health care marketplace. This course will address the changing demands for health care services, quality improvement and management measures and cost containment strategies.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**NURS 559 Operations Management in Contemporary Healthcare Organizations 3.0 Credits**

Ongoing demands for increased productivity, quality and service have resulted in a renewed emphasis on operational efficiency in the delivery of healthcare services and nursing care. This course will utilize clinical practice settings and case studies to examine critical issues related to restructuring patient care delivery models and clinical practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 557 [Min Grade: B] and NURS 558 [Min Grade: B]

**NURS 560 Wicked Problems in Health Care 3.0 Credits**

The term "wicked problem" originated in designing and planning literature and crept into healthcare, capturing problems such as access to care, healthcare errors, etc. this course offers a perspective on wicked healthcare problems and a framework to understand their complexity, and explores what happens in attempts to solve them.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit



**NURS 561 Spirituality, Health and Healing 3.0 Credits**

Spirituality is an essential aspect of one's identity. For some, spirituality is expressed in terms of religious concepts while for others it is less formalized yet no less significant in contributing meaning and purpose to their lives. Health, illness, and healing are three major life experiences impacted upon by one's spirituality.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 563 Building and Leading High Performance Healthcare Organizations 3.0 Credits**

This course presents an intensive examination of the role of organizational leaders in building and leading high performance teams for maximum effectiveness. It is focused on the evolving roles of leaders as they advance from front line to higher level management positions in clinical settings.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 557 [Min Grade: B] and NURS 558 [Min Grade: B] and NURS 559 [Min Grade: B]

**NURS 564 The Business of Healthcare 3.0 Credits**

This course will address the basics of financial management in health care organizations including accounting, cost analysis, managing financial resources, and other management tools helpful to a nurse manager. Budget development and full-time equivalent (FTE) allocation will be addressed along with federal and state regulations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is HI or major is NURS.

**NURS 565 Body Movement Therapies 3.0 Credits**

This course is an overview of the history and theory of the following movement therapies: Dance Movement Therapy, Feldenkrais, Qigong, Yoga, and Pilates. The clinical application of these movement therapies to specific patient populations will be explored. Students will have the opportunity to "experience" an episode of each of the movement therapies.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 566 Yoga for the Enlightened Practitioner 3.0 Credits**

This course provides a framework for understanding and experiencing the holistic practice of yoga. It addresses yoga's ancient philosophy of universal wisdom and this philosophy's increasing relevance to humankind today. The eight limbs of yoga are incorporated for study throughout the course content modules to promote self awareness and conscious action in daily life experience. Holistic yoga application as a medical modality is reviewed based on evidence based practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 567 Strategic Management: Power, Politics and Influence in Healthcare Systems 3.0 Credits**

Nursing care is increasingly recognized as vital to the success of healthcare initiatives and organizations. This course will utilize a systems focus to analyze the "fit" and "position" of nursing within organizations. Issues related to power, politics and influence; the ethics of scarcity management systems and processes; and organizational dynamics will be examined.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 559 [Min Grade: B] and NURS 563 [Min Grade: B] and NURS 564 [Min Grade: B] and NURS 558 [Min Grade: B] and NURS 557 [Min Grade: B]

**NURS 568 Practicum and Symposium in Healthcare Operations Management 3.0 Credits**

This practicum provides the Student an opportunity to operationalize the leadership role in appropriate agencies and facilities in conjunction with an expert nursing leader. A capstone project involving a project of interest to both the student and the organization will be initiated, to be completed in conjunction with NURS 569.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 557 [Min Grade: B] and NURS 558 [Min Grade: B] and NURS 559 [Min Grade: B] and NURS 563 [Min Grade: B] and NURS 564 [Min Grade: B] and NURS 567 [Min Grade: B]

**NURS 569 Practicum and Symposium in Technology and Management of Information in Healthcare Organizations 3.0 Credits**

The focus of the practicum will be on exposure to the management of information to support decision-making, communication, and strategic planning. These include systems for managing human resources, improving quality of care and tracking organizational metrics. The capstone project begun in the Operations Management Practicum (NURS 568) will be completed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 557 [Min Grade: B] and NURS 558 [Min Grade: B] and NURS 559 [Min Grade: B] and NURS 563 [Min Grade: B] and NURS 564 [Min Grade: B] and NURS 567 [Min Grade: B]

**NURS 570 Adult Gerontology Acute Care NP I: Introduction to Adult Gerontology Acute Care Medicine 5.0 Credits**

This is the first course in a series of five clinical courses for the graduate student studying to become an Adult-Gerontology Acute Care Nurse Practitioner. This course is designed to introduce the student to the role of the Adult-Gerontology Acute Care Nurse Practitioner in adult acute/critical and chronic healthcare settings.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is ACNP.

**Prerequisites:** NURS 548 [Min Grade: B] and NURS 554 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 519 [Min Grade: B] and NURS 664 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 523 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B]

**NURS 571 Adult Gerontology Acute Care Nurse Practitioner II: Mgmt/ Care of Patients in Acute/Crit Care Med Set 5.0 Credits**

This is the second course in a series of five clinical courses for the graduate student studying to become an Adult-Gerontology Acute Care Nurse Practitioner. This course is designed to foster development of clinical competency and role transition in the setting of acute medicine.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is ACNP.

**Prerequisites:** NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 570 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 519 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 523 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 664 [Min Grade: B] and NURS 554 [Min Grade: B]

**NURS 572 Adult Gerontology Acute Care Nurse Practitioner III: Mgmt/ Care of Patients in Acute Surgical Setting 5.0 Credits**

This is the third course in a series of five clinical courses for the graduate student studying to become an Adult-Gerontology Acute Care Nurse Practitioner. This course is designed to foster ongoing development of clinical competency and role transition in the setting of acute surgical patients.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is ACNP.

**Prerequisites:** NURS 548 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 523 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 570 [Min Grade: B] and NURS 571 [Min Grade: B] and NURS 664 [Min Grade: B] and NURS 554 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 519 [Min Grade: B] and NURS 502 [Min Grade: B]

**NURS 573 Adult Gerontology Acute Care NP IV: Management of Care of Patients in Critical Care Settings 5.0 Credits**

This is the fourth course in a series of five clinical courses for the graduate student studying to become an Adult-Gerontology Acute Care Nurse Practitioner. This course is designed to foster ongoing development of clinical competency and role transition in the setting of critically ill patients.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is ACNP.

**Prerequisites:** NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 570 [Min Grade: B] and NURS 571 [Min Grade: B] and NURS 572 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 519 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 523 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 664 [Min Grade: B] and NURS 554 [Min Grade: B]

**NURS 575 Family Nurse Practitioner I: Primary Care of Infants, Children & Adolescents 5.0 Credits**

This course is designed to introduce the FNP student to primary care of children and their family. The student will begin the critical analysis of clinical strategies and interventions in health promotion, health maintenance, disease prevention and common health problems seen primarily in pediatric populations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: C] and RSCH 523 [Min Grade: C] and NURS 500 [Min Grade: C] and NURS 502 [Min Grade: C] and NURS 526 [Min Grade: C] and NURS 527 [Min Grade: C] and NURS 548 [Min Grade: C] and NURS 549 [Min Grade: C] and NURS 550 [Min Grade: C] and NURS 556 [Min Grade: C]

**NURS 576 Family Nurse Practitioner I: Primary Care of Adults 5.0 Credits**

This course is designed to introduce the students to primary care of the adult population with a focus on well adult care and the management of acute illness. Critical analysis of clinical strategies and interventions in health promotion, health maintenance, disease prevention and common health problems seen primarily in adult populations are studied.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: C] and RSCH 523 [Min Grade: C] and NURS 500 [Min Grade: C] and NURS 502 [Min Grade: C] and NURS 526 [Min Grade: C] and NURS 527 [Min Grade: C] and NURS 548 [Min Grade: C] and NURS 549 [Min Grade: C] and NURS 550 [Min Grade: C] and NURS 556 [Min Grade: C] and NURS 575 [Min Grade: C] and NURS 578 [Min Grade: C]

**NURS 577 Family Nurse Practitioner IV: Primary Geriatric Care 5.0 Credits**

This course is designed to introduce the NP student to primary care of the adult population with a focus on well adult care of the older adult with multisystem and chronic illnesses. Critical analysis of clinical strategies and interventions in health promotion, health maintenance, disease prevention and common chronic health problems seen primarily in older adult populations are studied.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: C] and RSCH 523 [Min Grade: C] and NURS 500 [Min Grade: C] and NURS 502 [Min Grade: C] and NURS 526 [Min Grade: C] and NURS 527 [Min Grade: C] and NURS 548 [Min Grade: C] and NURS 549 [Min Grade: C] and NURS 550 [Min Grade: C] and NURS 556 [Min Grade: C] and NURS 575 [Min Grade: C] and NURS 576 [Min Grade: C] and NURS 578 [Min Grade: C]

**NURS 578 Family Nurse Practitioner III: Primary Care of Women 5.0 Credits**

This course is designed to introduce the FNP student to the health care of women. Critical analysis of clinical strategies and interventions in health promotion, health maintenance, disease prevention and common health problems seen primarily in female populations is studied. Emphasis is on the care of women from menarche through menopause, including the care of pregnant women.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: C] and RSCH 523 [Min Grade: C] and NURS 500 [Min Grade: C] and NURS 502 [Min Grade: C] and NURS 526 [Min Grade: C] and NURS 527 [Min Grade: C] and NURS 548 [Min Grade: C] and NURS 549 [Min Grade: C] and NURS 550 [Min Grade: C] and NURS 556 [Min Grade: C] and NURS 575 [Min Grade: C]

**NURS 579 Family Nurse Practitioner V: Integrative Practicum in Family Practice 4.0 Credits**

This course is designed to assist the student to apply knowledge from all of the previous clinical courses to guide them in the transition from student to practitioner. Content will include extensive use of case management of complex problems seen in Family Practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: C] and RSCH 523 [Min Grade: C] and NURS 500 [Min Grade: C] and NURS 502 [Min Grade: C] and NURS 526 [Min Grade: C] and NURS 527 [Min Grade: C] and NURS 548 [Min Grade: C] and NURS 549 [Min Grade: C] and NURS 550 [Min Grade: C] and NURS 556 [Min Grade: C] and NURS 575 [Min Grade: C] and NURS 576 [Min Grade: C] and NURS 577 [Min Grade: C] and NURS 578 [Min Grade: C]

**NURS 580 Adult-Gerontology Acute Care NP V: Mgmt/Care of Patients in Acute, Crit Care, Med or Surg Settings 5.0 Credits**

This is the fifth course in a series of five clinical courses for the graduate student studying to become an Adult-Gerontology Acute Care Nurse Practitioner. This course is designed to foster independent and interprofessional practice in the role of the Adult-Gerontology Acute Care Nurse Practitioner.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is ACNP.

**Prerequisites:** NURS 500 [Min Grade: B] and NURS 519 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 523 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 548 [Min Grade: B] and NURS 664 [Min Grade: B] and NURS 554 [Min Grade: B] and NURS 570 [Min Grade: B] and NURS 571 [Min Grade: B] and NURS 572 [Min Grade: B] and NURS 573 [Min Grade: B]

**NURS 581 Intra/Entrepreneurism, The Process of Innovation 3.0 Credits**

The course is designed for the student who desires to understand the entrepreneurial process and how it can be used to creatively build new structures within health care, potentially discovering intra/entrepreneurial potential within themselves. Through an analysis of contemporary theories on change, the theoretical framework of intra/entrepreneurism will be analyzed and applied to innovative products and processes within health care.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 582 Foundation of Good Clinical Practice in Clinical Trials Mngmt 3.0 Credits**

This foundation course in clinical research provides a comprehensive review of the fundamentals of human clinical research. It includes the principles of Good Clinical Practice (GCP?s), regulatory requirements and guidelines, and ethical requirements for human drug and device development in the United States.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 583 Operational Leadership in Clinical Trials Management 3.0 Credits**

This course focuses intensely on the integration and application of Good Clinical Practices (GCPs) and regulatory requirements in clinical trials management, including the development of an informed consent and responsibilities of an institutional review board (IRB). There is a strong focus on the financial aspects of study management including developments of study budgets.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 582 [Min Grade: B]

**NURS 584 Current Topics in Clinical Trials 3.0 Credits**

This third course in clinical research builds on the regulatory knowledge and skills learned in the foundation courses and offers an opportunity for the student to explore current topics in clinical trials management. It focuses on the challenges of running a clinical trial including fraud, adverse event reporting and patient recruitment.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 582 [Min Grade: B] and NURS 583 [Min Grade: B]

**NURS 585 Clinical Trials Research Practicum 5.0 Credits**

The practicum/project provides an opportunity for the student to operationalize the clinical trials role in appropriate agencies and facilities in conjunction with an expert clinical trials researcher. Emphasis is placed on practical experience in the clinical trials research process. A capstone project will be completed in conjunction with the practicum.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 582 [Min Grade: C] and NURS 583 [Min Grade: C] and NURS 584 [Min Grade: C]

**NURS 586 Innovation in Advanced Nursing Practice: Theory and Application 3.0 Credits**

Explores the theoretical literature from diverse disciplines on how innovations are conceived and implemented, particularly in nursing practice, and how such innovations run their course and spawn other innovations. Professional issues, practice issues, legislative issues, certification issues, insurance issues, legal issues and ethical conflict resolution in advanced nursing practice are explored.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CUIE or major is NURS.

**NURS 587 Case Studies in Intra/Entrepreneurship and Innovation in Nursing 3.0 Credits**

Using a case study model of great and bad ideas in nursing practice, education, and administration, students will explore some of the intra/entrepreneurial experiments, innovations and creative ventures in nursing, including both successes and failures. Professional issues, practice issues, legislative issues, certification issues, insurance issues, legal issues and ethical conflict resolution in advanced nursing practice are explored.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CUIE or major is NURS.

**Prerequisites:** NURS 586 [Min Grade: B]

**NURS 588 The Nurse as Intra/Entrepreneur and Consultant 3.0 Credits**

Using a business development model, each individual will create a business plan from vision, through action plan, to opening day. Researcher, expert and leader are presented and explored. Interpretation and application, professional issues, practice issues, legislative issues, certification issues, insurance issues, legal issues and ethical conflict resolution in advanced nursing practice are explored.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CUIE or major is NURS.

**Prerequisites:** NURS 586 [Min Grade: B] and NURS 587 [Min Grade: B]

**NURS 589 Witches, Wise Women and Women Healers 3.0 Credits**

This course provides an intriguing chronicle of women healers throughout history from ancient to modern times, those who have served as priestesses, witches, wise women, and ultimately the healers who have helped to shape and form healthcare, as we know it today. It examines the influence of religion, misogyny, science, politics, economics, and sexuality on the creation of the female archetype and the lasting impression that has influenced her role in healing practices. Finally, students will look at the role of modern healers and the evolving model of integrative healthcare in healing practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 590 Versatile Individualized Program I 3.0 Credits**

The focus of the project is determined by the student and Track Coordinator. The project and related assignments will be individualized to match the student's selected area of focus. The project should contribute to the body of nursing knowledge and prepare the student to be a leader in this area of knowledge.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: C] and RSCH 523 [Min Grade: C] and NURS 500 [Min Grade: C] and NURS 502 [Min Grade: C] and NURS 526 [Min Grade: C] and NURS 527 [Min Grade: C]

**NURS 591 Foundations of Nursing Education 3.0 Credits**

This course prepares the prospective nurse educator with the foundational principles necessary for teaching in various settings: classroom, clinical and college laboratories, and health care agencies.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 527 [Min Grade: B] and RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and INFO 526 [Min Grade: B]

**NURS 592 PMHNP I: Advanced Mental Health Nurse Practitioner Theoretical Foundations and Psychopathology I 5.0 Credits**

This course introduces conceptual models and theories related to the practice of psychiatric mental health nursing. The course integrates assessment, diagnosis and treatment of clients with selected mental disorders across the lifespan, using concepts from various sciences. Students integrate theory and practice of PMHNP in a supervised clinical practicum.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 664 [Min Grade: B] and RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 555 [Min Grade: B] and NURS 500 [Min Grade: B]

**NURS 593 PMHNP II: Advanced Mental Health Nurse Practitioner Theoretical Foundations and Psychopathology II 5.0 Credits**

NURS593 is a continuation of NURS592 focusing on the role of the advanced psychiatric mental health nurse in the assessment, diagnosis, and treatment of clients with selected mental disorders across the lifespan, using concepts from various sciences. Students integrate theory and practice of PMHNP in a supervised clinical practicum.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 555 [Min Grade: B] and NURS 592 [Min Grade: B] and RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 664 [Min Grade: B]



**NURS 594 PMHNP III: Adv Mental Hlth NP Treatment Modalities for Diverse Populations Across the Lifespan 5.0 Credits**

This course examines treatment modalities for advanced practice psychiatric nursing. The course focuses on theoretical and conceptual foundation for specialty practice with individuals, families and groups across the lifespan with the emphasis of psychotherapy approaches and considerations. Students integrate theory and practice of PMHNP in a supervised clinical practicum.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 555 [Min Grade: B] and NURS 592 [Min Grade: B] and NURS 593 [Min Grade: B] and RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 664 [Min Grade: B]

**NURS 595 PMHNP IV: Adv Mental Hlth NP Management and Care of Clients in Diverse Pop Across the Lifespan. 5.0 Credits**

This course expands on previous courses focusing on assessment, diagnosis, and management of acute and chronic mental disorders of special population across the lifespan. It examines the PMHNP role in various models of community mental health and consultation-liaison. Students integrate theory and practice of PMHNP in a supervised clinical practicum.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 555 [Min Grade: B] and NURS 592 [Min Grade: B] and NURS 593 [Min Grade: B] and NURS 594 [Min Grade: B] and RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 664 [Min Grade: B]

**NURS 596 Versatile Individual Program II 3.0 Credits**

The focus of the project is determined by the student and Track Coordinator. The project and related assignments will be individualized to match the student's selected area of focus. The project should contribute to the body of nursing knowledge and prepare the student to be a leader in this area of knowledge.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: C] and RSCH 523 [Min Grade: C] and RSCH 526 [Min Grade: C] and NURS 500 [Min Grade: C] and NURS 502 [Min Grade: C] and NURS 526 [Min Grade: C] and NURS 527 [Min Grade: C] and NURS 590 [Min Grade: C]

**NURS 597 Clinical & Didactic Teaching Methods 3.0 Credits**

The purpose of this course is to prepare the prospective nurse faculty with the foundational principles and skills necessary for didactic teaching in the classroom and for supervision in clinical settings. Educational theories and instructional methods will be explored to enhance learning among traditional and non-traditional student populations in differing types of programs within the higher education environment.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 598 Teaching Critical Thinking & Clinical Decision-Making in Nursing 3.0 Credits**

This course is designed to prepare the prospective nurse faculty with theoretical principles, processes, and instructional skills to promote critical thinking that results in appropriate clinical decision-making when interacting with student nurses in the classroom and clinical settings. Techniques for the facilitation of learning will be emphasized.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 597 [Min Grade: B] (Can be taken Concurrently)

**NURS 599 Curriculum Design in Nursing Education 3.0 Credits**

This course offers the student practical applications in curriculum design, including the development of a teaching/learning philosophy, mission statement, programmatic goals, learning objectives, individual courses, and teaching plans.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** NURS 597 [Min Grade: B], NURS 598 [Min Grade: B] (Can be taken Concurrently)

**NURS 600 Measurement & Evaluation in Nursing Education 3.0 Credits**

This course offers the student practical applications in assessment of learning outcomes, systematic test construction using multiple-choice format and alternative formats, and basic test statistics. Participants will explore advantages and limitations of a wide variety of classroom and clinical testing modalities.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** NURS 597 [Min Grade: B], NURS 598 [Min Grade: B] (Can be taken Concurrently)

**NURS 601 Advanced Health Assessment 6.0 Credits**

This course provides physical assessment didactic and lab experiences which builds upon NURS 201, Health Assessment Across the Lifespan. Students will refine the history taking and physical assessment skills necessary for advanced nursing roles. Students collect, synthesize, assess and interpret data from a variety of sources.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 506 [Min Grade: C] and NURS 509 [Min Grade: C] and NURS 513 [Min Grade: C] and NURS 611 [Min Grade: C]

**NURS 602 Foundations for Clinical Nurse Leader 4.0 Credits**

First of 3 CNL clinical courses in the track. Students experience point of care management of cohorts of clients with an interdisciplinary team model and from a Microsystems perspective. Integrates core and support course content into assessment, diagnosis and of health and illness conditions of adult clients. Concepts, theories, & research related to health promotion, illness management, risk identification and reduction to improve client safety are addressed. Emphasizes collaboration and interdisciplinary approach.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 500 [Min Grade: C] and NURS 502 [Min Grade: C] and NURS 527 [Min Grade: C] and NURS 531 [Min Grade: C] and NURS 532 [Min Grade: C] and RSCH 519 [Min Grade: C] and RSCH 523 [Min Grade: C] and INFO 526 [Min Grade: C]

**NURS 603 Clinical Nurse Leader Capstone Immersion I 5.0 Credits**

Second of 3 CNL clinical courses in the track. Students apply concepts, theories and evidence to the care of cohorts of clients with chronic illness. Emphasis is placed on utilization of technology at the point of care. Students will collaborate with other health care providers to develop and interdisciplinary approach to epidemiologically significant problems and to design, coordinate and evaluate plans of care using evidence and outcome data. Capstone project design begins in this course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 602 [Min Grade: C]

**NURS 604 Clinical Nurse Leader Capstone Immersion II 5.0 Credits**

Third course of 3 CNL clinical courses in the track. Students complete and present the capstone project to health care administrators and other stakeholders. Emphasis is on utilization of technology at the point of care. Students will collaborate, negotiate and articulate evidence based approaches to develop an interdisciplinary plan for significant epidemiologically significant problems and potential problems in diverse populations. Students develop in-depth understanding and skills in care of chronically ill client cohorts.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 602 [Min Grade: C]

**NURS 605 Pharmacology for Acute Care Nurse Practitioner 3.0 Credits**

This course is designed to prepare the Adult Acute Care Nurse Practitioner student for the safe managing and prescribing of therapeutics. Students will study pharmacologic mechanisms of action, effects on organ systems, routes of administration, pharmacokinetics, therapeutic uses, considerations related to physiologic state, adverse reactions, contraindications, and drug interactions. Case studies will be used to aid students in the transition from course work to clinical practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 548 [Min Grade: C] and NURS 549 [Min Grade: C]

**NURS 606 Curriculum Design for Higher Level Cognition 3.0 Credits**

The purpose of this course is to offer the student applications in nursing curriculum design, including the development of a teaching/learning philosophy, mission statement, programmatic goals, learning objectives, teaching plans, and individual courses.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 591 [Min Grade: B] and RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and INFO 526 [Min Grade: B]

**NURS 609 Forensic Mental Health 3.0 Credits**

This course examines the various foundations of offender behavior including theory, research and motivational models. Basic tenets of assessment and intervention with offenders will be examined from a healthcare perspective. Public policy and practice guidelines for a variety of healthcare settings will occur via case examples.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 3 credits

**NURS 610 Foundations in Clinical Aromatherapy 3.0 Credits**

This course provides a strong foundation for the safe and effective use of 20 therapeutic essential oils. Includes the clinical application of each essential oil, basic essential oil organic chemistry, safety, dosages and known contraindications. Reviews essential oil biosynthesis, specific plant morphological structures, extraction methodologies, primary avenues of absorption, and an overview of the history of aromatherapy, and quality of essential oils. This course adheres to the educational standards (level one) set forth by the National Association for Holistic Aromatherapy (NAHA).

**College/Department:** College of Nursing Health Professions

**NURS 611 Research and Theory II 4.0 Credits**

This is the second course in a sequence of two required research courses in the graduate nursing program. The course builds on the foundation of a research proposal to student a problem in the student's identified areas of interest.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 513 [Min Grade: C]

**NURS 613 The Role and Responsibility of the Nursing Professor 3.0 Credits**

Academic policies, protocols, and legal aspects of education will be explored. Campus relationships, prospective and current student issues, as well as laws affecting students will be examined. Situational events that occur in the classroom and clinical settings will be highlighted for students to research, discuss and develop a format for applying case law to student faculty issues.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 597 [Min Grade: B] and NURS 598 [Min Grade: B]

**NURS 614 Technology for Nursing Education & Practice 3.0 Credits**

The purpose of this course is to expand on technology skills that support the nurse educator in the virtual learning environment. This course prepares the student educator with the skills to utilize available technology for the development of on-line course work for the academic setting and program development for staff and patient education and the preparation community outreach programs.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 615 Assessment, Measurement and Evaluation 3.0 Credits**

This course explores the theories, principles and practices that underpin the measurement and evaluation of educational settings. This course includes content on approaches to giving feedback, test construction and psychometrics evaluation, development and grading of written assignments, evaluation of clinical performance and self-evaluation for personal teaching effectiveness.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** NURS 500 [Min Grade: B] and RSCH 519 [Min Grade: B] and NURS 502 [Min Grade: B] and RSCH 523 [Min Grade: B] and INFO 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 591 [Min Grade: B] and NURS 606 [Min Grade: B] and NURS 613 [Min Grade: B]

**NURS 616 Teaching Methods in Nursing Education 3.0 Credits**

This course provides an overview of teaching methods utilized within nursing education to support student learning in clinical, didactic and online learning environments. Students will examine various teaching/learning technologies, including simulation, and integrate these technologies with select teaching methods in the design of coursework to support learning.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and INFO 526 [Min Grade: B] and NURS 591 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 606 [Min Grade: B] and NURS 613 [Min Grade: B]

**NURS 617 Qigong: Bio-energy Therapy 3.0 Credits**

This course teaches Qigong in the context of traditional Oriental medicine, and includes body movement and energy medicine for health and healing. The course provides students with principles of bio-energy (Qi) and practical ways of using them for healing. The key component of the course includes lectures, slow relaxing exercises, Qi meditations, and self-healing treatment techniques for specific symptoms. Lectures cover principles, history of bio-energy therapy, self-healing and treatment for special symptoms, case studies, and effects.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 618 Principles of Holistic Nursing 3.0 Credits**

This course provides a foundation of holistic nursing knowledge, understanding and insight, including holistic nursing theories, ethics, and beliefs. The course will focus on the American Holistic Nurses Association's Scope and Standards of practice, as well as the Holistic Nursing Core Values. Students will explore the concept of healing, evaluate current local and national trends and environmental conditions that affect health, and identify ways to incorporate the concepts of holistic nursing into professional practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 619 Principles of Bioenergy Therapies 3.0 Credits**

Principles of Bioenergy Therapies examines the concept of human bioenergy fields and the healing modalities known as energy therapies that rebalance the bioenergy field to promote healing. The history and research into energy therapies is covered as students explore the paradigm shift in treatment of individuals in Western medicine.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 620 Integrative Meditation 3.0 Credits**

This course provides an introduction to the practice of meditation from Eastern civilizations to the West by presenting an overview of the major categories, including: Zen, Vipassana/Insight, Shambhala, Mindfulness and Centering Prayer. The course focuses on the experiential cultivation of both "formal" and "informal" mindfulness meditation practices as a foundation for positive health behaviors and psychological and emotional resilience that can be effectively utilized across the adult life span.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 623 Cross Cultural Issues 3.0 Credits**

Culture plays an important role in an individual's view of death and in a health care provider's provision of care at the end of life. This course will explore culture--the learned behaviors, beliefs, and values that define an individual's experience--and how it affects views of health, illness, dying, and life after death. The health care provider will develop skills necessary to recognize, assess, and address psychological, social/religious issues, and cultural taboos, realizing that different cultures may require significantly different approaches in order to provide a meaningful context for dying.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 624 Foundations of Integrative Addiction Therapy 3.0 Credits**

This course introduces the health care professionals to the foundational principles of integrative healthcare. It provides the student with an understanding of complementary and integrative therapies (CIT) which can be used during the recovery phase of addiction treatment. Care of the recovering client will be viewed from many disciplines, allowing practitioners the perspective needed to enhance the physical, emotional/mental and spiritual aspects of healing throughout the recovery process.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 625 Spirituality, Empowerment, and Transformation 3.0 Credits**

Advanced recovery from addiction requires the development of an expanded sense of self that is communal and spiritual in awareness. This course serves as an introduction to the significance of spiritual development using the 12-steps as spiritual practice and the wisdom of the great spiritual leaders, philosophers, and psychologists of our time. This course offers insight and practices that can energize the spirit, increase inner peace and work at the deepest root of the addiction process, providing students with the tools necessary to promote successful long-term recovery of those suffering from addictions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 626 Masters Nursing Education Practicum I 3.0 Credits**

First half of a 2-term sequence focusing on the role of the nurse educator in classroom and clinical settings. Includes precepted didactic and clinical teaching hours. Settings vary according to interests, goals and career objectives. NURS 627 continues the practicum sequence.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NEFR.

**Prerequisites:** NURS 597 [Min Grade: B] and NURS 598 [Min Grade: B] and NURS 599 [Min Grade: B] and NURS 600 [Min Grade: B] and NURS 613 [Min Grade: B] and NURS 614 [Min Grade: B]

**NURS 627 Masters Nursing Education Practicum II 3.0 Credits**

Second half of a 2-term sequence focusing on the role of the nurse educator in classroom and clinical settings. Includes precepted didactic and clinical teaching hours. Settings vary according to interests, goals and career objectives. NURS 626 begins the practicum sequence.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NEFR.

**Prerequisites:** NURS 597 [Min Grade: C] and NURS 626 [Min Grade: C] and NURS 598 [Min Grade: C] and NURS 599 [Min Grade: C] and NURS 600 [Min Grade: C]

**NURS 628 Special Topics in Nursing 3.0 Credits**

This course covers special topics of relevance and significance to the disciplines of nursing. This course may be repeated three times for credit as topics vary from term to term.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 9 credits

**Restrictions:** Can enroll if major is NURS.

**NURS 629 Independent Study in Nursing 1.0-3.0 Credit**

The Master's nursing student works under the guidance of a faculty member to study in depth a topic related to their Program of Study. Independent study courses can be undertaken when there is no specific formal coursework available to support the student's program of study. Specific objectives and requirements are negotiated individually and students will sign an Independent Study Contract. This course may be repeated three times for credit as topics vary from term to term.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 9 credits

**NURS 630 Principles of Nurse Anesthesia Practice VI 3.0 Credits**

This course focuses on gastrointestinal and hepatic dysfunction related to anesthesia planning and intervention in the advanced practice role as a CRNA. Specific attention is given to mechanisms and management of coagulopathies and administration of blood and blood products. Blood borne diseases associated with blood product administration is addressed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**NURS 631 Introduction to Nutritional Neuroscience 3.0 Credits**

This course explores the emerging interdisciplinary field of nutritional neuroscience that relates directly to many healthcare and quality-of-life issues at the forefront of modern society, in particular to addictions. Students will review the foundational neuroscience of addiction and the neuronutritional model of addiction. This course examines specific neuronutritional agents that are now used for their effects on behavior or brain function as it relates to addictions, the primary focus of the field of nutritional neuroscience.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 632 Nurse Educator and Faculty Role Practicum 6.0 Credits**

This course focuses the student on the role of the nurse educator in either academic or agency settings. Students will have the opportunity to apply all of the content from prior course work in a precepted situation and a required residency.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and INFO 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 591 [Min Grade: B] and NURS 606 [Min Grade: B] and NURS 613 [Min Grade: B] and NURS 615 [Min Grade: B] and NURS 616 [Min Grade: B]

**NURS 633 Pediatric Health I 7.0 Credits**

The course includes didactic and clinical experiences focused on advanced child health nursing. Areas of focus include the spectrum of pediatric health services, technology, diversity, ethics, political and social dimension of pediatric health care and interdisciplinary collaborative team process skills.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 506 [Min Grade: C] and NURS 509 [Min Grade: C] and NURS 513 [Min Grade: C] and NURS 525 [Min Grade: C] and NURS 609 [Min Grade: C] and NURS 611 [Min Grade: C]

**NURS 634 Pediatric Health II 7.0 Credits**

This course concentrates on the application of advanced nursing skills and knowledge related to pediatric assessment, pediatric and family theories and the economics, viability and availability of pediatric health care delivery systems locally and nationally. Student work with nurses and interdisciplinary collaborative teams.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 633 [Min Grade: C]



**NURS 635 Spirituality in Hospice and Palliative Care 3.0 Credits**

This course offers health care professionals the guidelines and tools necessary to provide compassionate spiritual care to patients and their families at the end of life, by examining spiritual beliefs, rituals and opportunities through the combined effort of patient, family and a multidisciplinary health care team. Techniques will be explored that acknowledge and support individual goals, values, wishes, through discovery, reverence, and tending of the spirit. This course will examine the ancient texts of death and dying, the use of scripture, and the unique energy of the ancient hospices in Europe.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 636 Capstone Project I 3.0 Credits**

The first of a 3-course sequence where under the direction of a nursing faculty mentor with direct expertise in the student's planned project, students will spend three quarters developing and producing a capstone project. Researcher, expert and leader are presented and explored. Interpretation and application, professional issues, practice issues, legislative issues, certification issues, insurance issues, legal and ethical conflict resolution in advanced nursing practice are explored.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CUIE or major is NURS.

**Prerequisites:** NURS 586 [Min Grade: B] and NURS 587 [Min Grade: B] and NURS 588 [Min Grade: B]

**NURS 637 Capstone Project II 3.0 Credits**

The second of a 3-course sequence where under the direction of a nursing faculty mentor with direct expertise in the student's planned project, students will spend three quarters developing and producing a capstone project. Researcher, expert and leader are presented and explored. Interpretation and application, professional issues, practice issues, legislative issues, certification issues, insurance issues, legal and ethical conflict resolution in advanced nursing practice are explored.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CUIE or major is NURS.

**Prerequisites:** NURS 636 [Min Grade: B]

**NURS 638 Capstone Project III 3.0 Credits**

The third and final course sequence where under the direction of a nursing faculty mentor with direct expertise in the student's planned project, students will spend three quarters developing and producing a capstone project. Researcher, expert and leader are presented and explored. Interpretation and application, professional issues, practice issues, legislative issues, certification issues, insurance issues, legal and ethical conflict resolution in advanced nursing practice are explored.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is CUIE or major is NURS.

**Prerequisites:** NURS 636 [Min Grade: B] and NURS 637 [Min Grade: B]

**NURS 639 Holistic Therapies in Hospice and Palliative Care 3.0 Credits**

This course introduces health care professionals to the use of complementary and integrative therapies (CIT) used during the end of life. Methods for assessment, the influence of the environment in healing, and therapeutic interventions for various stages of patient concerns will be explored. The current use of proven modalities in end of life care will be discussed, as well as the potential for expanding current practice. Care of the dying will be viewed from many disciplines, clinical and domestic.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 640 Women's Integrative Health 3.0 Credits**

This course presents an Integrative Mind-Body approach for supporting various states of health imbalance specific to women's health. Applied integrative strategies highlight the use of dietary and lifestyle changes, nutritional supplementation, botanical medicines and other specific healing modalities. Takes into account the eastern philosophy of anatomy energetics, the integration of the physical and the spiritual, psyche and soma, into a harmonious whole for addressing specific women's health conditions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** CIT 501 [Min Grade: C] or CIT 502 [Min Grade: C] or CIT 503 [Min Grade: C]

**NURS 642 PNP I: Primary Care of Infants, Children and Adolescents 5.0 Credits**

This course provides the pediatric nurse practitioner student with an introduction to the conceptual basis for meeting the health needs of diverse pediatric populations. Course content and clinical experiences prepare the student to assume the role of primary care provider for children from birth through adolescence.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 646 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 556 [Min Grade: B] and RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B]

**NURS 643 PNP II: Episodic Care of Infants, Children and Adolescents in Primary Care 5.0 Credits**

This course focuses on the diagnosis and management of common pediatric episodic and emergency issues. Course content and clinical experiences prepare the student to assume the role of primary care provider for children from birth through adolescence.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 646 [Min Grade: B] and NURS 642 [Min Grade: B] and RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 574 [Min Grade: B] and NURS 556 [Min Grade: B]

**NURS 646 Pharmacology for the Pediatric Nurse Practitioner 3.0 Credits**

This course focuses on the appropriate medication regimens utilized in pediatric health care. The action, therapeutic effect and rationale for selection of each drug class will be examined. Toxicity and complications of each drug class will be discussed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 556 [Min Grade: B] and NURS 574 [Min Grade: B] and NURS 642 [Min Grade: B]

**NURS 647 PNP III: Management and Care of Adolescents in the Primary Care Setting 5.0 Credits**

This course focuses on the assessment, diagnosis and management of common health issues of adolescence. Reproductive health management and anticipatory guidance unique to the adolescent population will be discussed. Course content and clinical experiences prepare the student to assume the role of primary care provider to adolescents.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 556 [Min Grade: B] and NURS 642 [Min Grade: B] and NURS 643 [Min Grade: B] and NURS 646 [Min Grade: B]

**NURS 648 PNP IV: Primary Care of Children with Special Health Care Needs 5.0 Credits**

This course focuses on the management of children with special health care needs in the primary care setting. Course content and clinical experiences emphasize the complex issues of chronicity, behavioral and developmental disabilities and common health problems seen in primary care.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 556 [Min Grade: B] and NURS 642 [Min Grade: B] and NURS 643 [Min Grade: B] and NURS 646 [Min Grade: B] and NURS 647 [Min Grade: B]

**NURS 659 Advanced Principles of Nurse Anesthesia IV 3.0 Credits**

As the last of a 4 course sequence in nurse anesthesia specialties, student will incorporate previously learned knowledge of physiology, pathophysiology, pharmacology, and patient management into the care of subspecialty populations and patients with various disease states. Examples of topics include: trauma, shock, endocrine and hepatic disorders, and cancers.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**Prerequisites:** NURS 517 [Min Grade: C] and NURS 518 [Min Grade: C] and NURS 524 [Min Grade: C] and NURS 530 [Min Grade: C]

**NURS 664 Professional Issues for Nurse Practitioners 1.0 Credit**

This required course is the application and integration of the role and competencies of the nurse practitioner. The roles of the nurse practitioner as clinician, educator, researcher, expert, and leader are presented and explored. Interpretation and application of professional issues, practice issues, legislative issues, certification issues, insurance issues, legal issues and ethical conflict resolution in advanced nursing practice are explored and integrated into a model of interdisciplinary collaborative practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 548 [Min Grade: B] and RSCH 519 [Min Grade: B] and NURS 523 [Min Grade: B]

**NURS 669 Professional Seminar for Advance Practice Nurses 1.0 Credit**

This required course is the application and integration of the role and competencies of the MSN prepared nurse with advanced nursing knowledge who will seek employment in a diversity of advanced practice roles. The roles of the MSN graduate as clinician, educator, researcher, expert, and leader are presented and explored. Interpretation and application, professional issues, practice issues, legislative issues, certification issues, insurance issues, legal issues and ethical conflict resolution in advanced nursing practice are explored.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 670 Interdisciplinary Clinician Perspectives on Health Law 3.0 Credits**

Introduces students to areas of law and legal theory that serve as the basis for the U.S. health care system. Students will examine statutes, regulations, and case law that regulate health care practice. Students will observe a courtroom proceeding, integrate professional knowledge with health law principles, and analyze testimony of a clinical expert witness. Legal underpinnings of provider liability, defenses, health policy access to care, and the patient safety movement are among topics discussed and analyzed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 500 [Min Grade: C]

**NURS 678 Health, Wellness, and Primary Care for WHNP I 3.0 Credits**

This course focuses on primary care of women throughout the life cycle. Within the framework of a multicultural viewpoint, students begin by examining strategies for preventive interventions as well as health screening and immunization schedules as women progress from adolescence to maturity.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: C] and RSCH 523 [Min Grade: C] and NURS 500 [Min Grade: C] and NURS 502 [Min Grade: C] and NURS 526 [Min Grade: C] and NURS 527 [Min Grade: C] and NURS 548 [Min Grade: C] and NURS 549 [Min Grade: C] and NURS 550 [Min Grade: C] and NURS 682 [Min Grade: C]

**NURS 679 Health, Wellness, and Primary Care for WHNP II 3.0 Credits**

This course follows NURS 678 Health, Wellness, and Primary Care for WHNP I. Students build upon the introductory framework presented in WHNP I with emphasis on disorders which are likely to be encountered in a women's health care setting.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: C] and RSCH 523 [Min Grade: C] and NURS 500 [Min Grade: C] and NURS 502 [Min Grade: C] and NURS 526 [Min Grade: C] and NURS 527 [Min Grade: C] and NURS 548 [Min Grade: C] and NURS 549 [Min Grade: C] and NURS 550 [Min Grade: C] and NURS 682 [Min Grade: C] and NURS 678 [Min Grade: C]

**NURS 680 Primary Care for Women's Health 3.0 Credits**

This course focuses on primary health care needs of women throughout the lifecycle concentrating on prevention, screening, risk factor assessment, health maintenance as well as signs and symptoms, assessment, management.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RSCH 519 [Min Grade: B], RSCH 523 [Min Grade: B] (Can be taken Concurrently) NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 556 [Min Grade: B]

**NURS 682 Pharmacology for the Women's Health Nurse Practitioner 3.0 Credits**

This course is designed to prepare the Women's Health Nurse Practitioner student for the safe managing and prescribing of therapeutic agents used in Obstetrics/Gynecology and primary care settings for women's health care.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 556 [Min Grade: B]

**NURS 683 Nurse Anesthesia Clinical Practicum V 3.0 Credits**

Clinical practicum V provides the student with the opportunity to administer a variety of anesthetics to patients presenting with a history of complex pathophysiological needs who are scheduled for a variety of surgical/diagnostic procedures. Students are provided invasive monitoring and regional anesthesia experiences.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**Prerequisites:** NURS 517 [Min Grade: C]

**NURS 684 Nurse Anesthesia Clinical Practicum VI 3.0 Credits**

Clinical practicum VI provides the student with the opportunity to administer a variety of anesthetics to patients presenting with a history of complex pathophysiological needs who are scheduled for a variety of surgical/diagnostic procedures. Students are provided opportunities to insert invasive monitors and manage regional anesthesia to patients.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**Prerequisites:** NURS 683 [Min Grade: C]

**NURS 687 Clinical Residency I 6.0 Credits**

The Clinical Practicums and Residencies provide opportunities for students to continue their development of critical thinking skills and anesthesia techniques when providing care for all types of surgical patients. Under the guidance of CRNAs and Staff Anesthesiologists, students work more autonomously and collaborate with others when providing comprehensive anesthesia care.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**Prerequisites:** NURS 684 [Min Grade: C]

**NURS 688 Clinical Correlative Seminars 3.0 Credits**

This seminar will integrate and review the academic and clinical knowledge the student has acquired in the nurse anesthesia program. The student will receive a weekly assignment of topical questions to research and present to classmates. A faculty member will serve as the course facilitator.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**Prerequisites:** NURS 687 [Min Grade: C]

**NURS 689 Clinical Residency II 6.0 Credits**

Clinical Residency II continues the students development of their critical thinking skills and anesthesia techniques as well as manage care for patients that they may not have had the opportunity to care for in their previous rotations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NUAN.

**Prerequisites:** NURS 687 [Min Grade: C]

**NURS 690 WHNP I: Mngmnt & Care of the Common Gyn and Gender Related Issues throughout the Lifespan 5.0 Credits**

This is the first course in a series of four clinical courses for the graduate student who is studying to become a (WHNP). This course is designed to introduce the WHNP student to the gynecological needs of women and their partners from puberty throughout the post reproductive years. Clinical practicum of 160 hours in Women's Health occurs concurrently.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 556 [Min Grade: B] and NURS 680 [Min Grade: B] and NURS 682 [Min Grade: B]

**NURS 691 WHNP II: Mngmnt & Care of the Complex Gyn and Gender Related Issues of Women throughout the Lifespan 5.0 Credits**

This is the second women's health course in a series of four clinical courses for the graduate student who is studying to become a WHNP. This course is designed to build upon the didactic and clinical content presented in N690 by addressing more complex gender related issues throughout the lifespan. Clinical practicum of 160 hours in Women's Health occurs concurrently.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 682 [Min Grade: B] and NURS 690 [Min Grade: B] and NURS 556 [Min Grade: B] and NURS 680 [Min Grade: B]

**NURS 692 WHNP III: Management & Care of the Low Risk Obstetrical and Post Partum Needs of Women and Families 5.0 Credits**

This is the third course in a series of four clinical courses for the graduate student who is studying to become a WHNP. This course is designed to introduce the WHNP student to low risk obstetrics. Clinical practicum of 160 hours in Women's Health Low Risk Obstetrical Care.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 682 [Min Grade: B] and NURS 690 [Min Grade: B] and NURS 691 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 556 [Min Grade: B] and NURS 680 [Min Grade: B]

**NURS 693 WHNP IV: Mngmnt & Care of the High Risk Obstetrical and Post Partum Needs of Women and Families 5.0 Credits**

This is the fourth course in a series of four clinical courses for the graduate student w studying to become a WHNP. The course is designed to introduce the WHNP student to the assessment of high-risk obstetrical care of the pregnant woman, the fetus, and the family unit. Clinical practicum of 160 hours in high risk obstetrics occurs concurrently.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**Prerequisites:** RSCH 519 [Min Grade: B] and RSCH 523 [Min Grade: B] and NURS 500 [Min Grade: B] and NURS 502 [Min Grade: B] and NURS 526 [Min Grade: B] and NURS 527 [Min Grade: B] and NURS 548 [Min Grade: B] and NURS 549 [Min Grade: B] and NURS 550 [Min Grade: B] and NURS 556 [Min Grade: B] and NURS 680 [Min Grade: B] and NURS 682 [Min Grade: B] and NURS 690 [Min Grade: B] and NURS 691 [Min Grade: B] and NURS 692 [Min Grade: B]

**NURS 700 Philosophy of Science Applied to Advanced Nursing Practice 3.0 Credits**

This course will introduce students to the philosophy of science, especially as it pertains to advanced nursing practice across service settings. We will investigate theories of science within the context of several philosophical problems and link them directly to nursing practice. These include the nature of the scientific method; the role of explanation and scientific principles applied to the delivery of care; observation and theory as ways of knowing; distinguishing between science and non-science when to developing and evaluating therapeutic modalities.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 703 Health Policy and Economics 3.0 Credits**

This course bridges the chasm between politics, economics, public policy making, and the U.S. health care system, by examining and critiquing the components of each. Students analyze foreign and domestic health care policies that provide the framework that drives regulation and delivery of health care. Critical analysis of global factors, national allocation of healthcare resources and current healthcare policy debates prepares the doctor of nursing practice student to organize, advocate, and implement health policy initiatives at multiple levels.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 706 Applied Epidemiology 3.0 Credits**

This is an applied course on methods of population-based epidemiologic research that includes a discourse on statistical analysis and causal inference. This course follows a prerequisite introductory biostatistics/epidemiology course, and is designed for nursing and health sciences doctoral students who are expected to integrate statistical reasoning into the decisions they make in the health care setting. A combination of Excel-based, SPSS, and hand calculated assignments will be used to supplement the content.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RSCH 519 [Min Grade: B]

**NURS 710 Human Responses - Physiologic 3.0 Credits**

The student explores the critical and seminal health research conducted by nurse scientists that has examined such human responses to altered physiologic function as urinary incontinence, impaired sleep, altered thermoregulation, pain, fatigue, and other physiological nursing phenomena.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 700 [Min Grade: C] and NURS 703 [Min Grade: C]

**NURS 715 Human Responses - Psychologic 3.0 Credits**

Psychosocial concepts relevant in the study and evaluation of nursing practice such as stress, anxiety, depression, grief, coping, addiction, impulse control, uncertainty, violence, spirituality, social support, and self-transcendence are discussed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 700 [Min Grade: C] and NURS 703 [Min Grade: C]



**NURS 716 Scientific Foundation of Nursing Knowledge Development 3.0 Credits**

This course is designed to help students explore the development of nursing knowledge that is generated from clinical practice. A critical analysis of historical and contemporary views of nursing science knowledge development and the evolution of nursing inquiry will be addressed. Concept analysis will be an integral part of this course. Students will examine relationships between the components of theory and the role that theory plays in research and clinical nursing practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 700 [Min Grade: C] and NURS 703 [Min Grade: C] and NURS 710 [Min Grade: C] and NURS 715 [Min Grade: C]

**NURS 717 Applied Epidemiology/Biostats 3.0 Credits**

This is an introductory course in clinical epidemiology and an intermediate course in biostatistics. The purpose of the course is to teach epidemiologic and intermediate biostatistical methods in clinical research with an integrated framework, and to develop beginning SPSS proficiency for performing the analysis of clinical datasets.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 700 [Min Grade: C] and NURS 703 [Min Grade: C] and NURS 710 [Min Grade: C] and NURS 715 [Min Grade: C]

**NURS 718 Quantitative Methods in Clinical Nursing 3.0 Credits**

This advanced quantitative research methods course provides an opportunity to examine various research designs used to investigate clinical nursing variables. Students who intend to conduct a quantitative research dissertation will use this course to complete the first draft of their dissertation proposal.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RSCH 519 [Min Grade: B] and NURS 716 [Min Grade: B] and NURS 706 [Min Grade: B] and NURS 713 [Min Grade: B]

**NURS 719 Leadership in Organizations and Systems 3.0 Credits**

This course is designed to broaden and enhance leadership skills for the Doctor of Nursing Practice Student enrolled in the Clinical Nurse Executive Track. Current topics affecting the health care delivery system will be explored, i.e. decreased revenue sources; unionization; health care reform; staffing models; magnet organization status; informatics; the aging population and its effect on the health care delivery system; strategic management, succession planning, and facilitation of clinical interdisciplinary relationship to improve clinical outcomes and research opportunities.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RSCH 519 [Min Grade: B] and NURS 716 [Min Grade: B] and NURS 706 [Min Grade: B] and NURS 713 [Min Grade: B]

**NURS 720 Health Information Technology and Information Systems 3.0 Credits**

This course prepares a doctoral student to be proficient in the use of health information technology and information systems to assume a leadership role to improve practice and health care delivery. This course will provide students with skills in the selection, use and evaluation of technologies for care; development and implementation of a plan for data extraction from databases containing practice information. The use of appropriate software to generate statistics and accurately interpreting statistical results will be addressed. The student is expected to use these technologies in translation of evidence to clinical practice to improve health care, health care systems and patient outcomes. Additionally, the concept of interprofessional collaboration to improve patient outcomes will be addressed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RSCH 519 [Min Grade: B] and NURS 716 [Min Grade: B] and NURS 706 [Min Grade: B] and NURS 713 [Min Grade: B] and NURS 719 [Min Grade: B] and NURS 718 [Min Grade: B]

**NURS 731 Human Responses to Altered Function in Health and Illness 3.0 Credits**

This course will explore critical and seminal health research studies that examined human responses to health and illness. A bio-behavioral model will be used to discuss interactions among physiological, psychological, social, behavioral, environmental, and biological factors in health and illness. Health concepts relevant in the study and evaluation of nursing will be addressed. Students will critically explore health concepts in the application of evidence in nursing practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**NURS 819 Qualitative Methods in Clinical Nursing 3.0 Credits**

This advanced qualitative research methods course provides an opportunity to examine various research designs used to investigate clinical nursing variables. Students who intend to conduct a qualitative research study will use this course to complete their first draft of their capstone project.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 703 [Min Grade: B] and NURS 716 [Min Grade: B] and NURS 718 [Min Grade: B] and RSCH 519 [Min Grade: B] and NURS 706 [Min Grade: B] and NURS 713 [Min Grade: B] and NURS 719 [Min Grade: B] and NURS 720 [Min Grade: B]

**NURS 830 Doctoral Nursing Practice Clinical Practicum 3.0 Credits**

This course is designed to enhance the clinical knowledge development of the clinical nursing scholar. Doctoral students, under the direction of their DNP advisor and course faculty, will select an area of clinical nursing practice that will be driven by their capstone project. Models of the reflective practitioner, interdisciplinary novice-to-expert theories, use of evidence-based data bases to drive interventions, and cost effectiveness evaluation of clinical interventions derived from students' Clinical Practica will be addressed. The Clinical Practicum will consist of 125 hours of practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 703 [Min Grade: B] and NURS 718 [Min Grade: B] and RSCH 519 [Min Grade: B] and NURS 716 [Min Grade: B] and NURS 706 [Min Grade: B] and NURS 713 [Min Grade: B] and NURS 719 [Min Grade: B] and NURS 720 [Min Grade: B]

**NURS 835 Doctoral Nursing Practice Role Practicum 3.0 Credits**

This course is designed to broaden and enhance the role development knowledge and skills of the clinical nursing scholar. Students, under the direction of faculty advisor, will select an area of role development as a practitioner, or nurse executive. This course will address content relevant to various role careers of the clinical nursing scholar such as role negotiation theory, lifelong mentorship; leadership abilities and professional development trajectory; and stress management and role strain. The Role Practicum will consist of 125 practice hours.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RSCH 519 [Min Grade: B] and NURS 716 [Min Grade: B] and NURS 706 [Min Grade: B] and NURS 713 [Min Grade: B] and NURS 719 [Min Grade: B] and NURS 718 [Min Grade: B] and NURS 720 [Min Grade: B] and NURS 703 [Min Grade: B] and NURS 819 [Min Grade: B] and NURS 830 [Min Grade: B]

**NURS 836 Clinical and Applied Nursing Ethics 3.0 Credits**

The course is designed to enhance ethical reasoning of nursing scholars in their role as clinicians or executives. The course will focus on the practical application of ethical theories such as utilitarianism, Kantianism, principle-based, pragmatism and casuistry. Clinical topics will address ethical issues at the beginning and end of life. Issues of resource allocation and cross-cultural influences will be examined. Discussion of the virtue ethics and obligations of professional nurses will be interwoven through-out the course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 703 [Min Grade: B] and NURS 716 [Min Grade: B] and NURS 718 [Min Grade: B] and NURS 830 [Min Grade: B] and RSCH 519 [Min Grade: B] and NURS 706 [Min Grade: B] and NURS 713 [Min Grade: B] and NURS 719 [Min Grade: B] and NURS 720 [Min Grade: B] and NURS 819 [Min Grade: B]

**NURS 837 Translating Evidence into Clinical Practice 3.0 Credits**

This course explores the process on how to translate research evidence into practice that includes assessing the need for change in practice, linking the clinical problem with nursing interventions and patient outcomes, synthesizing the best evidence, designing practice change, and integrating and maintaining the change in practice. Various critical analyses for assessing the quality of research evidence will be investigated. The PICOT format for translating research evidence into practice will be utilized.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RSCH 519 [Min Grade: B] and NURS 716 [Min Grade: B] and NURS 706 [Min Grade: B] and NURS 713 [Min Grade: B] and NURS 719 [Min Grade: B] and NURS 718 [Min Grade: B] and NURS 720 [Min Grade: B] and NURS 703 [Min Grade: B] and NURS 819 [Min Grade: B] and NURS 830 [Min Grade: B] and NURS 835 [Min Grade: B] and NURS 836 [Min Grade: B]

**NURS 840 Capstone Seminar 3.0 Credits**

This doctoral seminar is focused on developing a proposal for a capstone project to use evidence to improve practice through either healthcare delivery or patient outcomes. This project could either be a pilot study, a program evaluation, a quality improvement project, an evaluation of a new practice model, or a consultation-type project. Students are expected to work with the faculty advisor in the development of the proposal. The proposal will be peer reviewed in class.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RSCH 519 [Min Grade: B] and NURS 716 [Min Grade: B] and NURS 706 [Min Grade: B] and NURS 713 [Min Grade: B] and NURS 719 [Min Grade: B] and NURS 718 [Min Grade: B] and NURS 720 [Min Grade: B] and NURS 703 [Min Grade: B] and NURS 819 [Min Grade: B] and NURS 830 [Min Grade: B] and NURS 835 [Min Grade: B] and NURS 836 [Min Grade: B] and NURS 837 [Min Grade: B]

**NURS 890 Special Topics 3.0 Credits**

This course covers special topics of relevance and significance to the discipline of nursing. May be repeated three times for credit with varying topics.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 9 credits

**Restrictions:** Can enroll if program is DRNP.

**NURS 899 Independent Study 3.0 Credits**

The doctoral student works under the guidance of a faculty member to study in depth a topic related to their Program of Study. Independent study courses can be undertaken when there is no specific formal coursework available to support either the student's dissertation topic, or clinical and role practicum. May be repeated once for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 1 times for 3 credits

**NURS 900 Dissertation Seminar 3.0 Credits**

Topics covered include the IRB process, constructing an appropriate Informed Consent for the student's proposed study. Other topics include strategies for the timely completion of the dissertation proposal and final dissertation. Students are expected to make substantive progress on the dissertation proposal during this course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** NURS 700 [Min Grade: C] and NURS 703 [Min Grade: C] and NURS 710 [Min Grade: C] and NURS 715 [Min Grade: C] and NURS 716 [Min Grade: C] and NURS 717 [Min Grade: C] and NURS 718 [Min Grade: C] and NURS 830 [Min Grade: C] and NURS 835 [Min Grade: C] and NURS 836 [Min Grade: C]

**NURS 996 Dissertation Advisement I 2.0 Credits**

The student conducts a research study under the guidance of a dissertation chair and dissertation committee. The focus of advisement is the completion of the dissertation proposal and its successful defense. Afterward, advisement is directed toward the successful submission of all IRB materials. May be repeated three times for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 6 credits

**Prerequisites:** NURS 900 [Min Grade: C]

**NURS 997 Dissertation Advisement II 2.0 Credits**

The focus of this course is the completion of all data collection for the proposed dissertation study. May be repeated for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated multiple times for credit

**Prerequisites:** NURS 996 [Min Grade: CR]

**NURS 998 Dissertation Advisement III 2.0 Credits**

The focus of this course is for the student to analyze their data, write and revise drafts as directed by the dissertation committee, and successfully defend the dissertation. Students must register for at least one quarter of this course. May be repeated for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated multiple times for credit

**Prerequisites:** NURS 997 [Min Grade: CR]

**NURS 999 Continued Dissertation Advisement 1.0 Credit**

Students who have not submitted and defended their dissertation after two quarters of NURS 998 register for this course in perpetua until they have defended their dissertation. May be repeated for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated multiple times for credit

**Prerequisites:** NURS 998 [Min Grade: CR]

# Physician Assistant

## Courses

**PA 540 Clinical Anatomy 5.0 Credits**

This five (5) credit lecture and laboratory course is tailored to the specific needs of physician assistant students. It reviews the fundamentals of gross anatomy, and discusses the relationships between structure and function in a regional anatomy approach and major clinical applications of anatomic relationships. Material is coordinated with the PA 544 Clinical Assessment course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 10 credits

**PA 542 Patient Communication 2.0 Credits**

This lecture and seminar course provides instruction in communication skills for the effective exchange of information with patients. Addressed in the course are patient-provider collaboration, health literacy, and communication techniques for patients across cultural and generational groups, and counseling techniques for patient education, treatment adherence, and health promotion.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**PA 543 Ethical Issues in Physician Assistant Practice 2.0 Credits**

This is a lecture and seminar course addressing ethical and professional issues in Physician Assistant practice. Topics include medical ethics, ethical decision-making, professional responsibility, and commitment to patients' welfare. The link between health as a human right and medical ethics is explored.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**PA 544 Clinical Assessment 5.0 Credits**

This course provides the PA student with the knowledge, demeanor, and motor skills required to professional and proficiently elicit thorough medical histories and perform precise physical examination techniques for each body system. Accurate, organized recordings of clinical findings from patient encounters in the hospital setting are required.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 542 [Min Grade: C], PA 543 [Min Grade: C] (Can be taken Concurrently)

**PA 545 Physician Assistant Practice 1.0 Credit**

Physician Assistant Practice is a one (1) credit lecture course that introduces the concept, history, and future directions of the PA profession, and discusses professional practice issues and theories of leadership applicable to PA practice. Stewardship and strategies for effecting change as a leader are discussed in the context of cases applicable to PA professional settings.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 2 credits

**Restrictions:** Can enroll if major is PA.

**PA 546 Health Policy for Physician Assistant Practice 2.0 Credits**

This course explores the UD health care system and health policy issues related to the costs of health care, inequities in quality and access to care, and current US policies. The role of Physician Assistants in the health care system is examined along with issues related to malpractice, reimbursement, and quality assurance.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**PA 547 Evidence Based Medicine for Physician Assistants 3.0 Credits**

This is a three (3) quarter credit course designed to introduce PA students to epidemiologic principles, methodologies, and applications to primary care clinical practice. The course content includes an overview of epidemiologic and research concepts; ethics and the roles of politics and culture in research; quantitative and qualitative research methods and designs; and level of scientific evidence for clinical practice. Through evaluation of published research and national practice guidelines, the skills of evidence-based practice are introduced. The course is lecture-based and utilizes cooperative learning strategies to engage students in individual and group inquiry learning outside the classroom.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 6 credits

**Restrictions:** Can enroll if major is PA.

**PA 548 Principles of Medical Science I 2.0 Credits**

This course is the first of three courses which provide the physiologic foundation for clinical courses. Emphasizing the complex nature of bodily functions, the course reviews normal physiology and provides a bridge to the concepts of pathophysiology that underlie dysfunction and disease. Clinical applications enhance understanding and introduce the skill of clinical reasoning.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 541 [Min Grade: C]

**PA 549 Principles of Medical Science II 2.0 Credits**

This course is the second of three courses which provide the physiologic foundation for clinical courses. Emphasizing the complex nature of bodily functions, the course reviews normal physiology and provides a bridge to the concepts of pathophysiology that underlie dysfunction and disease. Clinical applications enhance understanding and introduce the skill of clinical reasoning.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 541 [Min Grade: C]

**PA 550 Principles of Medical Science III 2.0 Credits**

This course is the last of three courses which provide the physiologic foundation for clinical courses. Emphasizing the complex nature of bodily functions, the course reviews normal physiology and provides a bridge to the concepts of pathophysiology that underlie dysfunction and disease in geriatrics, women's health, pediatrics, emergency medicine, and surgery while refining clinical reasoning skills.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 541 [Min Grade: C]

**PA 551 Pharmacology and Therapeutics I 3.0 Credits**

This is the first in a series of three courses to provide Physician Assistant students with basic knowledge in pharmacology and therapeutics. Principles of pharmacodynamics, pharmacokinetics, and clinical therapeutics are discussed for applications to primary care practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 548 [Min Grade: C]

**PA 552 Pharmacology and Therapeutics II 2.0 Credits**

This is the second in a series of three courses to provide Physician Assistant students with basic knowledge in pharmacology and therapeutics. Principles of pharmacodynamics, pharmacokinetics, and clinical therapeutics are discussed for applications to primary care practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 549 [Min Grade: C] (Can be taken Concurrently)PA 551 [Min Grade: C]

**PA 553 Pharmacology and Therapeutics III 2.0 Credits**

The third in a series of three courses, this course provides Physician Assistant students with basic knowledge in pharmacology and therapeutics for specific patient populations. Principles of pharmacodynamics, pharmacokinetics, and clinical therapeutics across the lifespan are discussed for applications to primary care practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 550 [Min Grade: C] (Can be taken Concurrently)PA 551 [Min Grade: C]

**PA 554 Biopsychosocial Issues in Patient Care 5.0 Credits**

This course introduces the PA student to the biopsychosocial model of patient care. Covering topics ranging from normal psychological development and human sexuality across the lifespan to responses to stress, injury, illness, and death, the course also introduces psychiatric disorders common to primary care practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 542 [Min Grade: C]



**PA 556 Clinical Medicine I 5.0 Credits**

This is the first of two courses designed to prepare the PA student with a body-system, problem-oriented approach to diseases encountered in primary care. Discussion of the etiology, epidemiology, pathophysiology, clinical manifestations, and diagnostic studies for common disorders allows the PA student to problem solve through clinical reasoning.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 548 [Min Grade: C], PA 551 [Min Grade: C] (Can be taken Concurrently) PA 542 [Min Grade: C] and PA 544 [Min Grade: C]

**PA 557 Clinical Medicine II 5.0 Credits**

This is the second of two courses designed to prepare the PA student with a body-system, problem-oriented approach to diseases encountered in primary care. Discussion of the etiology, epidemiology, pathophysiology, clinical manifestations, and diagnostic studies for common disorders allows the PA student to problem solve through clinical reasoning.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 549 [Min Grade: C], PA 552 [Min Grade: C] (Can be taken Concurrently) PA 542 [Min Grade: C] and PA 544 [Min Grade: C]

**PA 558 Topics in Clinical Practice 5.0 Credits**

The course prepares the PA student for clinical rotations through lecture and a problem-oriented approach to disorders in geriatrics, women's health, pediatrics, emergency medicine, and surgery.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 10 credits

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 550 [Min Grade: C], PA 553 [Min Grade: C] (Can be taken Concurrently) PA 542 [Min Grade: C] and PA 544 [Min Grade: C] and PA 556 [Min Grade: C] and PA 557 [Min Grade: C] and PA 551 [Min Grade: C] and PA 559 [Min Grade: C] and PA 560 [Min Grade: C]

**PA 559 Clinical Skills I 2.0 Credits**

This is the first of three courses designed to prepare the PA student with a problem-oriented, clinical approach to the evaluation, diagnosis, and management of common primary care disorders. The course uses clinical reasoning and clinical skills application laboratories based on clinical scenarios to facilitate skill development.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 548 [Min Grade: C], PA 551 [Min Grade: C] (Can be taken Concurrently) PA 542 [Min Grade: C] and PA 544 [Min Grade: C]

**PA 560 Clinical Skills II 2.0 Credits**

This is the second in a series of three courses designed to prepare the PA student with a problem-oriented, clinical approach to the evaluation, diagnosis, and management of common primary care disorders. The course uses clinical reasoning and clinical skills application laboratories based on clinical scenarios to facilitate skill development.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 549 [Min Grade: C], PA 552 [Min Grade: C] (Can be taken Concurrently) PA 542 [Min Grade: C] and PA 544 [Min Grade: C]

**PA 561 Clinical Skills III 4.0 Credits**

This is the third in series of three courses designed to prepare the PA student with a problem oriented, clinical approach to the evaluation, diagnosis, and management of common primary care disorders. The course uses clinical reasoning and clinical skills laboratories based on clinical scenarios to facilitate skill development.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 550 [Min Grade: C], PA 553 [Min Grade: C] (Can be taken Concurrently) PA 542 [Min Grade: C] and PA 544 [Min Grade: C] and PA 556 [Min Grade: C] and PA 557 [Min Grade: C]

**PA 570 Clinical Assessment Competency 1.0 Credit**

Clinical Assessment Competency is a required course for any PA student who experiences an interruption in the usual sequence of didactic and clinical training. The course provides the forum for the student to demonstrate competencies in knowledge and skills germane to clinical assessment requisite to patient evaluation and clinical practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 3 credits

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 544 [Min Grade: C]

**PA 571 Competency for Clinical Training 1.0 Credit**

Competency for Clinical Training is a required course for any PA student who experiences an interruption in the usual sequence of didactic and clinical training after the second quarter in the program. The course provides the forum for the student to demonstrate competencies requisite for continued didactic and/or clinical training.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 3 credits

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 544 [Min Grade: C] and PA 551 [Min Grade: C] and PA 556 [Min Grade: C] and PA 559 [Min Grade: C]

**PA 581 Research Methods and Designs 5.0 Credits**

The course introduces the knowledge and skills necessary to evaluate published research for clinical practice. Topics in this web-based course are research concepts, hypotheses and questions; literature searches and reviews; ethics in research; qualitative and quantitative research methods and designs including sampling, data collection and interpretation; and levels of scientific evidence.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**PA 582 Principles of Evidence-Based Practice 5.0 Credits**

With an emphasis on developing skills for clinicians to critically appraise the validity of medical literature, this online course offers a critical analysis of several types of research studies for use in clinical practice. The course requires knowledge and application of basic research and statistical concepts, and online searching skills.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 581 [Min Grade: C]

**PA 583 Clinical Application of Epidemiology 5.0 Credits**

This online course introduces basic terminology and concepts in epidemiology and develops knowledge for application of evidence-based health promotion strategies to clinical practice. The leading causes of morbidity and mortality in the United States are discussed in conjunction with recommendations for health promotion across the lifespan and population groups.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**PA 584 Health Policy 5.0 Credits**

This web-based course explores health policy issues relating to the cost of health care and disparities in access and quality of care, and strategies to address the deficiencies in the US health care system. Each student critiques a health policy imperative and proposes solutions to remedy the issues identified in the critique.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**PA 585 Leadership and Stewardship 5.0 Credits**

Key concepts of leadership with a focus on servant and visionary leadership are discussed in this online course. Stewardship and strategies for effecting change as a leader are explored through cases applicable to professional settings. Synthesis of course content is evidenced in the compilation of a professional leadership portfolio.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**PA 629 Medicine Rotation 5.0 Credits**

The Medicine Rotation is a clinical course that provides the PA student with adult patient care experience under the supervision of a licensed medical practitioner. Students apply knowledge and skills learned in the didactic year to patient evaluation, and begin to apply patient management strategies to patients in an assigned clinical setting.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 545 [Min Grade: C] and PA 546 [Min Grade: C] and PA 547 [Min Grade: C] and PA 550 [Min Grade: C] and PA 553 [Min Grade: C] and PA 554 [Min Grade: C] and PA 558 [Min Grade: C] and PA 561 [Min Grade: C]

**PA 630 Pediatrics Rotation 5.0 Credits**

The Pediatrics Rotation is a clinical course that provides the PA student with pediatric patient care experience under the supervision of a licensed medical practitioner. Students apply knowledge and skills learned in the didactic year to patient evaluation, and begin to apply patient management strategies to patients in an assigned clinical setting.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 545 [Min Grade: C] and PA 546 [Min Grade: C] and PA 547 [Min Grade: C] and PA 550 [Min Grade: C] and PA 553 [Min Grade: C] and PA 554 [Min Grade: C] and PA 558 [Min Grade: C] and PA 561 [Min Grade: C]

**PA 631 Obstetrics and Gynecology Rotation 5.0 Credits**

The OB/Gyn Rotation is a clinical course that provides the PA student with prenatal and gynecologic patient care experience under the supervision of a licensed medical practitioner. Students apply knowledge and skills learned in the didactic year to patient evaluation, and begin to apply patient management strategies to patients in an assigned clinical setting.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 545 [Min Grade: C] and PA 546 [Min Grade: C] and PA 547 [Min Grade: C] and PA 550 [Min Grade: C] and PA 553 [Min Grade: C] and PA 554 [Min Grade: C] and PA 558 [Min Grade: C] and PA 561 [Min Grade: C]

**PA 632 Psychiatry and Behavioral Health Rotation 5.0 Credits**

The Psychiatry/Behavioral Health Rotation is a clinical course that provides the PA student with psychiatric/behavioral health patient care experience under the supervision of a licensed medical practitioner. Students apply knowledge and skills learned in the didactic year to patient evaluation, and begin to apply patient management strategies to patients in an assigned clinical setting.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 545 [Min Grade: C] and PA 546 [Min Grade: C] and PA 547 [Min Grade: C] and PA 550 [Min Grade: C] and PA 553 [Min Grade: C] and PA 554 [Min Grade: C] and PA 558 [Min Grade: C] and PA 561 [Min Grade: C]

**PA 633 Surgery Rotation 5.0 Credits**

The Surgery Rotation is a clinical course that provides the PA student with surgical patient care experience under the supervision of a licensed medical practitioner. Students apply knowledge and skills learned in the didactic year to patient evaluation, and begin to apply patient management strategies to patients in an assigned clinical setting.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 545 [Min Grade: C] and PA 546 [Min Grade: C] and PA 547 [Min Grade: C] and PA 550 [Min Grade: C] and PA 553 [Min Grade: C] and PA 554 [Min Grade: C] and PA 558 [Min Grade: C] and PA 561 [Min Grade: C]

**PA 634 Emergency Medicine Rotation 5.0 Credits**

The Emergency Medicine Rotation is a clinical course that provides the PA student with patient care experience in an emergency department setting under the supervision of a licensed medical practitioner. Students apply knowledge and skills learned in the didactic year to patient evaluation, and begin to apply patient management strategies to patients in an assigned clinical setting.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 545 [Min Grade: C] and PA 546 [Min Grade: C] and PA 547 [Min Grade: C] and PA 550 [Min Grade: C] and PA 553 [Min Grade: C] and PA 554 [Min Grade: C] and PA 558 [Min Grade: C] and PA 561 [Min Grade: C]

**PA 635 Primary Care Practicum I 10.0 Credits**

The Primary Care Practicum I is a clinical course that provides the PA student with patient care experience in an ambulatory medicine setting under the supervision of a licensed medical practitioner. Students refine clinical skills learned in preparation for practice and increase knowledge of disease mechanisms and patient management for common primary care disorders.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 629 [Min Grade: C] and PA 630 [Min Grade: C] and PA 631 [Min Grade: C] and PA 632 [Min Grade: C] and PA 633 [Min Grade: C] and PA 634 [Min Grade: C]

**PA 636 Graduate Project I 3.0-6.0 Credits**

Graduate Project I is a variable credit course, 3-6 quarter credits, intended to prepare the PA student for the development of a project related to the candidate's research interests. The Graduate Project I course provides the PA student an opportunity to creatively address a proven deficiency in the realms of clinical medicine such as patient or medical provider educational material.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 547 [Min Grade: C] (Can be taken Concurrently)

**PA 637 Primary Care Practicum II 10.0 Credits**

The Primary Care Practicum II is a clinical course in which PA students continue to progress to higher levels of clinical responsibility for patient evaluation and management as clinical skills, medical knowledge, and professional confidence coalesce under the supervision of licensed medical providers. This course is the final clinical experience in the PA professional training program.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 635 [Min Grade: C] and PA 629 [Min Grade: C] and PA 630 [Min Grade: C] and PA 631 [Min Grade: C] and PA 632 [Min Grade: C] and PA 633 [Min Grade: C] and PA 634 [Min Grade: C]

**PA 638 Graduate Project II 3.0-6.0 Credits**

Graduate Project II is a supervised independent study course of variable credit, 3-6 quarter credits, in which the PA student further develops, implements, and evaluates the project proposed in the Graduate Project I course. Continued review and critique of the literature related to the project are required. The PA student works with an assigned faculty advisor for guidance and feedback.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 547 [Min Grade: C] and PA 636 [Min Grade: C]

**PA 640 Clinical Practicum 5.0-10.0 Credits**

Clinical Practicum is an elective clinical course that provides a forum for a PA student to acquire knowledge and clinical experience in a clinical specialty after completion of the required entry-level Physician Assistant Program curriculum. Through supervised clinical practice and review of current related literature, the PA student will develop foundational clinical skills and knowledge in the subspecialty studied.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 20 credits

**Prerequisites:** PA 637 [Min Grade: C] and PA 638 [Min Grade: C]

**PA 641 Clinical Update 5.0 Credits**

This web-based course explores recent advances in clinical knowledge and recommendations for clinical practice, and develops the student's lifelong learning skills. The student undertakes a broad review of clinical medicine and identifies areas for enhancement of clinical knowledge and skills through the use of reputable electronic information sources.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 582 [Min Grade: C]

**PA 642 Clinical Colloquium 5.0 Credits**

In this online didactic course the student explores a clinical specialty through use of current, reputable information sources. The student identifies a clinical topics for in-depth study, and with faculty guidance uses critical appraisal of current literature for enhancement of knowledge in the topic, and application to the capstone project.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 641 [Min Grade: C]

**PA 643 Clinical Practice Project Research 5.0 Credits**

Working with an assigned advisor, the student reviews and catalogues the published literature related to the clinical practice project topic. The student composes a literature review and gap analysis, and critically appraises articles as the foundation for the design and outline of the capstone project proposal within this course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 642 [Min Grade: C]

**PA 661 Tenets of Health Promotion 5.0 Credits**

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 583 [Min Grade: C]

**PA 662 Health Promotion Materials 5.0 Credits**

In this online course, knowledge from the Health Promotion course is applied to the review of national health promotion campaigns, and the design of a theory-driven, audience-centered health promotion proposal. Topics essential to the design of effective health promotion campaigns such as health literacy, cultural competency, and the challenges presented by special population groups are explored.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 661 [Min Grade: C]

**PA 663 Health Promotion Project Research 5.0 Credits**

Working with an assigned advisor, the student reviews and catalogues the published literature related to the health promotion project topic. The student composes a literature review and gap analysis, and critically appraises articles as the foundation for the design and outline of the capstone project proposal within this course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 582 [Min Grade: C] and PA 662 [Min Grade: C]

**PA 680 Summative Remediation 1.0 Credit**

Summative Remediation is one credit course which provides an intensive review of major topics covered in the didactic and clinical phases of the PA program for any PA student who has not achieved minimum passing grades on two administrations of the Summative Examination /OSCE.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 637 [Min Grade: C]

**PA 695 Portfolio Preparation 1.0 Credit**

Working with an assigned advisor, this course assists the student document significant professional experience as a clinician, researcher, leader, and/or advocate in the preparation of a professional portfolio. Approval of the Program Director is required for course registration.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 581 [Min Grade: C] and PA 582 [Min Grade: C] and PA 583 [Min Grade: C] and PA 584 [Min Grade: C] and PA 585 [Min Grade: C]

**PA 696 Portfolio Review 5.0-10.0 Credits**

The Portfolio Review is conducted by a multi-disciplinary Portfolio Review Committee to award 5-10 academic credits for learning substantiated in the professional portfolio and matched to the educational competencies and outcomes of the Program. The portfolio must demonstrate analysis, synthesis, and interpretation of the professional experiential learning and be substantiated by documentation.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**PA 697 Independent Study 3.0-6.0 Credits**

Independent Study is a variable (3-6) credit course in which the student works with in assigned advisor to review and catalogue the published literature related to the cognate topic of interest. The student composes a literature review and gap analysis, and critically appraises articles as the basis for the design and outline of the capstone project proposal within this course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 582 [Min Grade: C]

**PA 698 Capstone Project 5.0 Credits**

Working with an assigned advisor, the student develops, implements, and evaluates the literature-based capstone project designed within the cognate courses. Continued critical analysis of the literature related to the project is required to fulfill the goals of the project to advance dissemination of medical knowledge and quality of care.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PA.

**Prerequisites:** PA 643 [Min Grade: C] or PA 663 [Min Grade: C] or PA 697 [Min Grade: C]

## Physical Therapy Rehab Science

### Courses

**PTRS 501 Introduction to Research 4.0 Credits**

The course is designed to provide professional graduate students with the skills necessary to evaluate the relationship between practice and published research using an interdisciplinary approach. The content includes an overview of research concepts, research ethics, literature reviews, quantitative and qualitative research methods, including sampling, data collection, and analysis.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 530 Kinesiology I 4.0 Credits**

This course is part one of a two-part series designed to provide students with basic knowledge of biomechanics and functional aspects of the musculoskeletal system. It involves the study of the anatomical, biomechanical, and physiological fundamentals of human motion as it pertains to the upper extremity.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 531 Kinesiology II 3.0 Credits**

This course is part two of a two-part series designed to provide students with basic knowledge of biomechanics and functional aspects of the musculoskeletal system. It involves the study of the anatomical, biomechanical, and physiological fundamentals of human motion as it pertains to the spine and lower extremity.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.



**PTRS 532 Human Gross Anatomy I 4.0 Credits**

This course is part one of a two-part series designed to introduce students to the structure and function of the back, neck, face, and upper extremity with particular emphasis on the nervous and musculoskeletal systems. Special emphasis is placed on clinical relevance and functional interrelationships of the anatomic structures.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 533 Human Gross Anatomy II 3.5 Credits**

This course is part two of a two-part series designed to introduce students to the structure and function of the cranium, thorax, abdomen, and lower extremity with particular emphasis on the nervous and musculoskeletal systems. Special emphasis is placed on clinical relevance and functional interrelationships of the anatomic structures.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 534 Physical Therapy Exam & Intervention I 3.0 Credits**

This course prepares a student to perform a basic musculoskeletal examination of the cervical spine and upper extremity. The entire patient management process from history taking to prescription of interventions is introduced and applied. Basic skills needed in the examination are described and practiced.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 535 Physical Therapy Exam & Intervention II 3.0 Credits**

This course prepares a student to perform a basic musculoskeletal examination of the lumbar spine and lower extremities. The entire patient management process from history taking to prescription of interventions is applied. Basic skills needed in the examination are described and practiced.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 537 Clinical Correlations I 3.0 Credits**

Utilizing a case-based format, this course assists students with clinical decision-making strategies as outlined in the Guide to Physical Therapist Practice. Students apply concepts of patient-client management including examination, evaluation, diagnosis, prognosis, and intervention. Through small group discussion, students develop their group skills and are introduced to the team approach.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 538 Clinical Correlations II 3.0 Credits**

This course emphasizes decision-making strategies for patients with multiple co-morbidities. Meta-cognitive strategies are used during clinical decision making to assist with student transitions from novice to entry-level clinicians.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 539 Topics in Pathophysiology I 3.5 Credits**

Topics in Pathophysiology I is the first of two lecture-format courses that introduce physiology of organ systems, disease states and conditions. Differential diagnosis, medical screening, the impact of pathology and medical management in physical therapy practice will be investigated.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 540 Topics in Pathophysiology II 2.0 Credits**

Topics in Pathophysiology II is the second of two lecture-format courses that introduce physiology of organ systems, disease states and conditions. Differential diagnosis, medical screening, the impact of pathology and medical management in physical therapy practice will be investigated.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 590 Clinical Anatomy 3.0,4.0 Credits**

Exposes clinicians to the structure and function of the body with particular emphasis on the nervous and musculoskeletal systems. The format consists of online presentations and an optional onsite lecture session that includes prosections/dissections. Special emphasis is placed on clinical relevance and functional interrelationships of the anatomic structures.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 604 Induction Inquiry Integration 3.0 Credits**

This course provides an introduction to the learning philosophy of the program, introducing models of adult learning, learning styles and experiential learning. Different forms of knowledge are explored. Methods of creating knowledge from experimentation, observation and experience are studied.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 609 Experiential Accreditation 6.0 Credits**

Provides an opportunity for bachelors prepared students to gain credit for their professional experiential learning. With guidance from the course director, students compile a portfolio, reflecting on evidence that demonstrates their ability to perform higher-level academic functions in a clinical context: analysis and decision making.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 610 Issues in Pharmacotherapy 3.0 Credits**

Issues in Pharmacotherapy is a lecture-format course that focuses on providing foundational information about pharmacotherapy, pharmacokinetics, and pharmacodynamics that is applicable in physical therapy. Drug classifications are described. Examples are provided of various drug categories.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 612 Pharmacotherapeutics 3.0 Credits**

Pharmacotherapeutics is a lecture-format course that focuses on providing foundational information about pharmacotherapeutics, pharmacology, pharmacokinetics, and pharmacodynamics that is applicable in physical therapy. Drug classifications are described. Examples are provided of various drug categories.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 613 Clinical Practice I 0.5 Credits**

Clinical Practice I is the first in a series of four clinical practice courses. It is an opportunity for students to practice physical therapy skills learned in the curriculum to date. Students will have the opportunity to practice and refine their skills under the direct supervision of a licensed physical therapist.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 614 Clinical Practice II 0.5 Credits**

Clinical Practice II is the second in a series of four clinical practice courses. It is an opportunity for students to practice physical therapy skills learned in the curriculum to date. Students will have the opportunity to practice and refine their skills under the direct supervision of a licensed physical therapist.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 615 Clinical Practice III 0.5 Credits**

Clinical Practice III is the third in a series of four clinical practice courses. It is an opportunity for students to practice physical therapy skills learned in the curriculum to date. Students will have the opportunity to practice and refine their skills under the direct supervision of a licensed physical therapist.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 616 Clinical Practice IV 0.5 Credits**

Clinical Practice IV is the last in a series of four clinical practice courses. It is an opportunity for students to practice physical therapy skills learned in the curriculum to date. Students will have the opportunity to practice and refine their skills under the direct supervision of a licensed physical therapist.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 620 Orthopedic Physical Therapy: Upper Extremity 4.0 Credits**

This is the first in a series of three courses on orthopedic physical therapy. This course emphasizes differential diagnosis, clinical decision making, and development and implementation of a plan of care for conservative and post-operative management of patients demonstrating musculoskeletal dysfunction of the upper extremity.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 621 Orthopedic Physical Therapy: Lower Extremity 4.0 Credits**

This is the second in a series of three courses on Orthopedic Physical Therapy. This course emphasizes differential diagnosis, clinical decision making, and development and implementation of a plan of care for conservative and post-operative management of patients demonstrating musculoskeletal dysfunction of the lower extremity.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 622 Orthopedic Physical Therapy: Spine 4.0 Credits**

This course is one of three courses in orthopedic physical therapy. Emphasis is on examination, differential diagnosis, clinical decision making, and development and implementation of a plan of care for conservative management (including joint manipulation) and post operative interventions for patients with musculoskeletal dysfunction.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 623 Physical Agents 4.0 Credits**

Physical Agents discusses the equipment used and the general application of thermal agents, electrotherapy, compression devices and massage. The clinical decision making when using all of these modalities in the management of clinical conditions including pain, edema, inflammation, decreased range of motion, and muscle weakness will be discussed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 624 Functional Modality 2.5 Credits**

This course addresses the functional management of patients with limited mobility and their equipment needs, emphasizing functional training and clinical decision making for therapeutic intervention as well as prescription of durable medical equipment. Patient, caregiver, and healthcare provider safety for injury prevention are stressed throughout this course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 627 Cardiopulmonary Physical Therapy I 4.0 Credits**

This is the first of two courses designed to provide exposure to the normal and abnormal anatomy, physiology and function of the cardiac, vascular and pulmonary systems. Physiology and pathophysiology are explored in relation to functional performance, compensation for disease process and implications for management. Clinical decision making is emphasized.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 628 Cardiopulmonary Physical Therapy II 4.0 Credits**

Cardiopulmonary Physical Therapy II is the second of two courses designed to provide students with exposure to the normal and abnormal anatomy, physiology and function of the cardiac, vascular and pulmonary systems. Primary and secondary cardiopulmonary diseases/dysfunction are discussed as they relate to functional ability.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 632 Pediatric Physical Therapy 5.5 Credits**

This course takes a systems approach to understanding the basis for pediatric disabilities. Examination and intervention planning are discussed both broadly and in terms of specific disabilities in the context of current evidence for client management models. Lab component provides opportunity to work with a child with a disability in a community setting.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 633 Professional Development 1.0 Credit**

This is the first in a series of four professional development courses. The focus of this course is to provide students with opportunities to enhance self-awareness and to develop the professional skills inherent in physical therapy.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 634 Health Professional Roles 3.0 Credits**

This is the second in a series of four professional development courses. This course focuses on professional issues and behaviors that are necessary to prepare physical therapy students for their clinical experiences. Structured modules focus on cultural competency, ethics, communication, and developing roles as a health care professional.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 637 Professional Project I 1.0 Credit**

This is part I of a capstone course that will require students to integrate and apply information they have learned throughout the curriculum to a specific project. These projects are identified by faculty and fulfill needs within Drexel, local or international communities or gaps in knowledge. Students will investigate topics and explore resources related to their project. The culmination of these projects will be a scholarly presentation.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 639 Motor Learning 2.5 Credits**

This course examines topics in movement science at different points in the life span, traces the evolution of skill acquisition, and critically reviews current theories of motor learning and control. Emphasis will be placed on basic concepts of motor learning and control in populations with typical development.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 641 Neurological Exam and Intervention I 4.0 Credits**

This course introduces the student to examination, evaluation, diagnosis and comprehensive interventions for the adult with neurological dysfunction. It focuses on examination skills and common interventions used with this patient population. Clinical decision making will be utilized to develop appropriate intervention strategies, application techniques, and neuromuscular strengthening and conditioning principles.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 642 Neurological Exam and Intervention II 5.0 Credits**

This course focuses on adults with central nervous system dysfunction where vestibular, sensory, perceptual, cognitive, and communication deficits result in more complex movement dysfunction and limited capacity for learning. Students will learn to integrate neuromuscular, sensory-perceptual, cognitive, behavioral and functional mobility strategies into a comprehensive plan of care.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 643 Applied Biomechanics 3.0 Credits**

This course provides content essential for understanding and evaluating research literature related to the effects of aging, pathology, immobilization, and therapeutic procedures on biological tissues and human movement. Methods for quantifying and evaluating tissue properties and human neuromuscular control are included. Application to practice will come from discussion of current literature.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**Prerequisites:** PTRS 776 [Min Grade: C]

**PTRS 644 Wound Care Management 1.5 Credit**

The focus of this course is on wound assessment and management techniques used in the clinical setting as outlined in the Guide to Physical Therapy Practice. The use of evidence-based practice to guide clinical decision making will be emphasized.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 645 Prosthesis Management 1.5 Credit**

This course will provide students with knowledge of appliance components and biomechanical principles of upper and lower extremity prosthesis. In addition to the basic principles, a foundational knowledge will be presented regarding appliance prescription, checkout and functional training with such devices.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 646 Orthosis Management 1.5 Credit**

Using a combination of lecture and laboratory, this course will provide students with knowledge of appliance components and biomechanical principles of lower and spinal orthoses. A foundational knowledge will be provided regarding appliance prescription, checkout and functional training with such devices. Case presentation will be used to enhance learning.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 647 Professional Project II 2.0 Credits**

This is part II of a capstone course that will require students to integrate and apply information they have learned throughout the curriculum to a specific project. These projects are identified by faculty and fulfill needs within Drexel, local or international communities or gaps in knowledge. Students will investigate topics and explore resources related to their project. The culmination of these projects will be a scholarly presentation.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 650 Motor Control and Learning Rehabilitation 3.0 Credits**

Students examine topics in movement science in motor control and motor learning throughout the lifespan and the application of these principles to varied patient populations. This course also allows students to review the movement science literature as it applies to select patient populations.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 651 Applied Tissue Biomechanics 3.0 Credits**

This course is designed to provide the information necessary for the understanding and evaluation of the effects of immobilization, increased stress and strain, injury, disease, healing and aging on biological tissues. Emphasis is placed upon the integration of tissue biomechanics into the rationale and basis for therapeutic interventions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 652 Life Span Development I 3.0 Credits**

Life Span Development I is a required course for professional DPT students. This course addresses physical, cognitive, emotional, and social-cultural aspects of development and the changes that occur during childhood and adolescence. Course content will provide foundational knowledge for concurrent and subsequent courses and for physical therapy evaluation, examination and intervention.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 653 Life Span Development II 2.0 Credits**

Life Span Development II is required for all Professional Doctor of Physical Therapy students. This course addresses the physical, cognitive, emotional, and social-cultural aspects of aging, and the changes that occur throughout adulthood. Course content will provide foundational knowledge for concurrent and subsequent courses and for physical therapy examination and intervention.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 654 Topics in Health Policy & Services 2.0 Credits**

This is the third course in the professional development series for professional doctor of physical therapy students. This course provides information on health policy and health services specific to physical therapy. Students are exposed to health legislation, social determinants of health, issues in health disparities and development of advocacy skills.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 655 Health Administration 2.5 Credits**

This is the last in a series of four professional development courses. The focus of the course is on the organizational, fiscal and administrative workings of the health care environment and the responsibilities of individual physical therapists in these areas.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 656 Motor Control and Rehabilitation 2.0 Credits**

This course examines contemporary insights for the application of motor control and learning in physical therapy for children and adults with movement dysfunctions. Emphasis is placed on critical review of current evidence applied to patient populations. Practice paradigms for patient scenarios for evaluations and intervention will be critically discussed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 720 Rehabilitation Management 3.0 Credits**

This course focuses the student on the organization and administrative aspects of health care delivery. Students knowledge of managerial and service-related business concepts are enhanced in order to increase the efficiency and effectiveness of their and others' practice in today's health care environment.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 721 Teaching Concepts in Rehabilitation 3.0 Credits**

The course provides information on the means of teaching/learning theory, teaching and learning styles, planning of learning experiences, clinical teaching tools and strategies, teaching objectives, effective feedback, and performance evaluation, all within the context of adult education and with the acknowledgment of the clinical experience of the participants.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 740 Issues in Pediatric Health & Rehabilitation 4.0 Credits**

The course addresses issues within health, prevention and rehabilitation, services and outcomes for children, youth and families. Key themes are participation, self-determination and advocacy. Materials addressing intervention, service delivery models and care across the lifespan, leadership, innovation and knowledge translation will be integrated.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 750 Differential Diagnosis 1.0 Credit**

This course uses published evidence to explore the process of differential diagnosis and explain how it is an essential piece of all physical therapy examinations. The recognition of significant medical conditions that fall out of the scope of physical therapy practice is emphasized.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit



**PTRS 751 Evidence-Based Practice 2.0 Credits**

The objective of this course is development of skills for finding, analyzing, communicating and applying knowledge and research to physical therapy practice. Students will develop competencies in evidence-based clinical decision making.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 752 Research and Measurement in Physical Therapy 2.0 Credits**

This course introduces stages of research processes including research theory, formulating the research question, literature review, sampling, and experimental controls. Areas of psychometric measurement theory including reliability and validity issues will be examined. This information is applied to common clinical and research tests and measurements related to physical therapy.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 753 Evaluation of Research in Physical Therapy 4.0 Credits**

This course builds upon courses in evidence-based practice and measurement. Emphasis is on understanding the research designs and statistical analyses most often used in biomedical and rehabilitation research; interpretation of statistics; methods of clinical inquiry including case reports, single subject research, and program evaluation; and dissemination of research and scholarship.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 758 Evidence-Based Rehabilitation 4.0 Credits**

The focus of this web-based course is on analysis of the evidence for physical (occupational) therapy practice including models and guidelines for practice. Participants development competencies in transfer of knowledge and research into practice, clinical reasoning, and evidence based decision making.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 760 Pediatric Decision Making 4.0 Credits**

The course focuses on evidence-based examination and intervention of children with disabilities within the context of child, family, and environmental factors. The course highlights the role of therapists in promoting the status of the neuromuscular and musculoskeletal systems. The importance of family-centered care, parent-child interactions, and play are explored.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 761 Pediatric Clinical Application 4.0 Credits**

Pediatric Clinical Application is a primary course in the post-professional pediatric concentration area. Through a problem-based case study format, the course facilitates transfer of knowledge into the specialty practice area of pediatrics and promotes independent learning.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 762 Women's Health in Physical Therapy 4.0 Credits**

Provides a review of female anatomy and physiology. Emphasis on aspects of examination, evaluation and intervention for selected topics related to women's health across the lifespan, especially during reproductive and menopausal years. Students are encouraged to explore the unique niche physical therapists have in providing health care services for women.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 763 Decision Making in Rehabilitation 4.0 Credits**

This course is designed to provide students with the opportunity to integrate basic and clinical science research in the design of intervention paradigms for patients being served in rehabilitation settings.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 764 Geriatric Rehabilitation 4.0 Credits**

This course examines the implications of an aging population, effects of age on physiological, kinesiological, social, and psychological function, using evidence as a framework for examination, intervention and clinical decision making, advocacy for patients and caregivers, health promotion and wellness, the impact of Medicare, and pharmacological issues in the elderly.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 765 Spinal Rehabilitation 4.0 Credits**

This course applies an evidence-based approach to answering clinical questions about examination, diagnosis, prevention, and management of spinal and pelvic disorders. Goals are to foster independent, critical thinking based on interpretation of scientific literature and its integration into PT theory and practice and to enhance clinical examination and intervention skills.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 766 Extremity Rehabilitation 4.0 Credits**

This elective, on-line course explores advanced examination and intervention strategies for the upper and lower extremities. Clinical examination procedures (including clinical imaging), outcome measures, prevention and treatment interventions will be critically analyzed using an evidence-based approach.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 767 Foundations in Hand Therapy 4.0 Credits**

This course introduces the student to the specialized field of hand therapy. The principles of hand therapy included are musculoskeletal tissues and pathology, clinical reasoning, hand examination, splinting principles, physical agents, and therapeutic exercise. Common elbow, wrist, and hand disorders are discussed to integrate the foundation topics into clinical practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 768 Upper Quarter Joint Pathology 4.0 Credits**

This course reviews the common pathologies that effect the articulations and surrounding soft tissues, especially tendons and ligaments. Anatomy, biomechanics, and examination principles for each region, shoulder, elbow, wrist, and hand are discussed. Conservative and post-operative therapeutic management for fractures, dislocations, tendon repairs, ligament injuries, and degenerative disorders are presented.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** PTRS 767 [Min Grade: C]

**PTRS 769 Nerve Injuries of the Upper Quarter 4.0 Credits**

This course emphasizes the anatomy and basic science principles for the cervical spine and major peripheral nerves of the upper quarter. Age-related changes and pathophysiology of nerve lacerations and entrapment neuropathies are discussed. Advanced examination skills and interventions, conservative and post-operative, for the peripheral nervous system are presented.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** PTRS 767 [Min Grade: C]

**PTRS 770 Diseases That Affect the Hand 4.0 Credits**

Course content emphasizes the impact of disease on hand function, especially with activities of daily living, vocational activities, and recreational activities. The overview includes pathology, clinical presentation, examination techniques and clinical interventions specific to the hand. Additionally, multisystem involvement associated with mutilated hand injuries and pain syndromes is discussed.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** PTRS 767 [Min Grade: C]

**PTRS 771 Work Injury Management 3.0 Credits**

This course emphasizes management of clients with work-related musculoskeletal injuries with focus on identifying and defining the therapists' involvement in the return to work process. Topics such as ergonomic assessment, onsite programs, safety and wellness programs, and government regulations will be presented with a global view of the industrial setting.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 772 Selected Topics in Pediatrics 1.0-4.0 Credit**

This course is designed to provide the opportunity for advanced content and discussion regarding issues facing the pediatric practitioner. This course is designed to address current issues related to practice in various pediatric settings. Topics are introduced and content delivered, but the emphasis will be on student/instructor interaction and discussion.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 4 times for 16 credits

**PTRS 774 Clinical Education Seminar 0.5 Credits**

This seminar-based course precedes the student's first full-time clinical education experience and assists the student in transitioning from the classroom to the clinical setting. Through simulated cases and role-playing exercises, the student will develop knowledge and behavioral skills for effective practice as a student physical therapist in the clinical environment.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 775 Clinical Education I 1.0 Credit**

This course is the first of four required full-time supervised clinical education experiences. This course is the student's opportunity to begin to apply classroom knowledge and laboratory skills to patients and clients. The student also begins to develop as a professional through role modeling by the clinical instructor.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 776 Clinical Education II 2.0 Credits**

This course is the second of four required full-time supervised clinical education experiences. The student continues to apply classroom knowledge and laboratory skills and will be involved in all aspects of patient-client management (examination, evaluation, diagnosis, prognosis, intervention, discharge, and outcomes management).

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 777 Clinical Education III 2.0 Credits**

This course is the third of four required full-time supervised clinical education experiences. Prior to this course the student will have completed all didactic coursework. He or she is expected to demonstrate competence in the comprehensive management of the simple patient and occasional guidance in managing the complex patient.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 778 Clinical Internship 3.0 Credits**

This course is the final and capstone full-time supervised clinical education experience. The student attains mastery of knowledge, skills, and attitudes to effectively and safely practice in today's healthcare environment. The student will experience the multiple roles of the physical therapist, such as those related to administration and health promotion.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 779 Independent Project 1.0-3.0 Credit**

Independent Project provides the student an exposure to physical therapy scholarship and research through participation in a faculty research project or self-directed study.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**PTRS 780 Foundations of School-based Practice 2.0 Credits**

This web-based course is designed to enhance knowledge and competencies of physical therapists in school-based practice. Emphasis on the roles and responsibilities of the physical therapist in educational settings. Participants will develop competencies to support students, families and educational teams.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 781 Advanced Competencies in School-based Practice 2.0 Credits**

This web-based course builds on Foundations of School-base Practice. The focus is on advanced competencies for physical therapists in school-based practice. Emphasis is on innovation in practice, solutions to challenges, and leadership roles as a member of the education team.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**PTRS 786 MHS Final Project I 1.0-2.0 Credit**

Students develop a final project to demonstrate the ability to use current best evidence to evaluate methods of service delivery or interventions at individual or program levels. Completion of an in-depth literature review associated with the project approved by the student's advisory committee is the focus of this course.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 6 credits

**Restrictions:** Can enroll if major is PT or major is RHAB and program is MHS.

**Prerequisites:** PTRS 501 [Min Grade: C] and RHAB 759 [Min Grade: C] and PTRS 758 [Min Grade: C] and PTRS 721 [Min Grade: C] and PTRS 650 [Min Grade: C] and PTRS 651 [Min Grade: C]

**PTRS 787 MHS Final Project II 1.0-2.0 Credit**

Students conduct a well designed and executed study that addresses service delivery at the individual or program level. The results of the study are presented in manuscript format suitable for dissemination at a professional meeting, in a relevant peer-reviewed journal, or other educational resources used by rehabilitation specialists.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 6 credits

**Restrictions:** Can enroll if major is PT or major is RHAB and program is MHS.

**Prerequisites:** PTRS 786 [Min Grade: C]

**PTRS 799 Essentials of Physical Therapy 0.5-3.0 Credits**

Designed to remediate students who require intensive instruction to achieve acceptable performance in the Doctor of Physical Therapy Program. Addresses students' individual performance deficiencies. Credits assigned based on extent of remediation required. Specific requirements are outlined in a learning contract.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 9 credits

# Rehabilitation Sciences

## Courses

**RHAB 760 Academia for Rehabilitation Scientists 1.0 Credit**

Students are introduced to the organizational structures and functions commonly found in universities and colleges. Internal and external environmental issues of higher education and professional development are discussed. Familiarity with the context of academic environments enables the students to understand their roles and responsibilities as faculty members.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**RHAB 761 Foundations of Rehabilitation Research 3.0 Credits**

Provides exposure to theories and models related to rehabilitation sciences research. Theories that may be applied to various phases of the enabling-disabling process are examined. Students discuss how these theories are tied to development of research questions in line with the mission, goals and research priorities of funding sources.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**RHAB 763 Biomechanics in Rehabilitation 3.0 Credits**

The first half of the class focuses on statics (muscle forces and stress-strain analysis), and the second half concentrates on dynamics (kinematic and kinetic analysis of human motion) with applications. Some minor computer work is required for this class, mainly using the Microsoft Excel spreadsheet program.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**RHAB 764 Biomechanics in Human Movement 3.0 Credits**

The first half of the class focuses on the development of the tools necessary to conduct biomechanics research, process the data, and perform biomechanical data analysis. The second half of the class works through common biomechanics questions related to human movement in three dimensions.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**RHAB 765 Introduction to Movement Science 3.0 Credits**

This class focuses on structures and mechanisms underlying human movements, principles of movement control and learning, and methods of motor control and learning research using current theories of motor control and motor learning in healthy populations. Applied lab activities are used to enhance student learning of theoretical concepts. May be repeated once for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 1 times for 3 credits

**Restrictions:** Can enroll if major is PT or major is RHAB.

**RHAB 812 Interpretation of Data 3.0 Credits**

This is an advanced seminar on issues such as power and effect size calculations and interpretation of results of statistical analysis including outputs of statistical software packages.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 1 times for 3 credits

**RHAB 813 Measurement Theory in Rehabilitation 3.0 Credits**

The emphasis of this course is on the assessment of the uses, advantages, validity, reliability, and sources of error in measurement tools commonly used in rehabilitation sciences and on methodological and outcome research methods.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**RHAB 814 Research Designs in Rehabilitation 3.0 Credits**

Research Designs is a core course in the PhD program and provides a review of concepts and principles for PhD students. The focus is on application of research designs and methods that are applicable to rehabilitation sciences research.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**RHAB 815 Scientific Inquiry and Writing 3.0 Credits**

This seminar focuses on the conceptual framework and aims of a research project, including the use of theory, evidence and practice models to develop the rationale for the project; writing a review article, research proposal, and research report; identifying sources for funding and the peer-review process.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**Prerequisites:** RHAB 761 [Min Grade: C] and RHAB 811 [Min Grade: C] and RHAB 812 [Min Grade: C] and RHAB 813 [Min Grade: C] and RHAB 814 [Min Grade: C]

**RHAB 816 Special Topics 1.0-4.0 Credit**

The course description will be developed by the Course Director depending upon the course content. May be repeated three times for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 12 credits

**Restrictions:** Can enroll if major is PT or major is RHAB.

**RHAB 817 Sensors & Transducers in Rehabilitation 3.0 Credits**

This course combines clinical, electronics and engineering background, and a step-by-step process of understanding the different instrumentation used to gather information about the status of human activity and motion. The course provides the student with knowledge needed to choose, use and improve measurement systems for application in rehabilitation sciences.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is PT or major is RHAB.

**RHAB 818 Clinical Question Development 1.0 Credit**

This course consists of identifying the research question or project for the clinical dissertation, developing a time line for completion, and reviewing the relevant literature.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 5 times for 5 credits

**Restrictions:** Can enroll if major is RHAB.

**Prerequisites:** RSCH 758 [Min Grade: B]

**RHAB 819 Advanced Clinical Practicum 1.0-3.0 Credit**

This course is designed to provide an individualized advanced-level mentored experience to integrate didactic knowledge and enhance clinical skills in a specialty practice area. Students are expected to develop a learning contract with specific objectives, and work with their faculty advisor to identify resources needed to successfully complete this practicum.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 4 times for 30 credits

**Restrictions:** Can enroll if major is RHAB.

**RHAB 820 Independent Study 1.0-4.0 Credit**

Independent study is offered PhD students to afford them the opportunity to develop various components of their research or for content related to their interests. The course is structured with a contract and is designed to allow students access to avenues and resources (personnel, mentorship, institutional) to enrich their learning. May be repeated three times for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 9 credits

**Restrictions:** Can enroll if major is PT or major is RHAB.

**RHAB 823 Research Practicum 1.0-6.0 Credit**

Prepares the student for dissertation research through faculty-supervised research experiences. Focuses on one or more stages of the research process, such as developing a question, literature review, design and method, IRB, grant writing, subject recruitment, instrumentation, measurement, data collection, data analysis, interpretation of results, and/or dissemination of results. May be repeated for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 12 times for 12 credits

**Restrictions:** Can enroll if major is PT or major is RHAB.

**RHAB 824 Teaching Practicum I 1.0 Credit**

This course requires a negotiated agreement, leading to a contract among the Course Director/Instructor, the student and the student's advisor.

The student develops a syllabus, write goals and objectives, prepare and present materials, develop assessments strategies, and participate in the administrative responsibilities of the course. May be repeated three times for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 3 credits

**Restrictions:** Can enroll if major is PT or major is RHAB.

**Prerequisites:** RHAB 762 [Min Grade: C]



**RHAB 825 Teaching Practicum II 2.0 Credits**

This course requires a negotiated agreement, leading to a contract among the Course Director/Instructor, the student and the student's advisor. The student develops a syllabus, write goals and objectives, prepare and present materials, develop assessments strategies, and participate in the administrative responsibilities of the course. May be repeated twice for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 4 credits

**Restrictions:** Can enroll if major is PT or major is RHAB.

**Prerequisites:** RHAB 762 [Min Grade: C]

**RHAB 826 Teaching Practicum III 3.0 Credits**

This course requires a negotiated agreement, leading to a contract among the Course Director/Instructor, the student and the student's advisor. The student develops a syllabus, write goals and objectives, prepare and present materials, develop assessments strategies, and participate in the administrative responsibilities of the course. May be repeated twice for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 6 credits

**Restrictions:** Can enroll if major is PT or major is RHAB.

**Prerequisites:** RHAB 762 [Min Grade: C]

**RHAB 827 Clinical Dissertation Research I 1.0 Credit**

Through clinical dissertation a student produces an original contribution of knowledge. Clinical Dissertation I consists of developing the proposal, completing any pilot projects that may be required and defending the proposal.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 5 times for 5 credits

**Restrictions:** Can enroll if major is RHAB.

**Prerequisites:** RHAB 813 [Min Grade: B] and RHAB 814 [Min Grade: B] and RHAB 818 [Min Grade: CR] and RSCH 519 [Min Grade: B] and RSCH 831 [Min Grade: B]

**RHAB 828 Clinical Dissertation Research II 1.0 Credit**

Through dissertation a student produces an original contribution of knowledge. Clinical Dissertation II consists of obtaining IRB approval, as needed, and implementing the proposed project. This may include data collection and analysis.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 5 times for 5 credits

**Restrictions:** Can enroll if major is RHAB.

**Prerequisites:** RHAB 827 [Min Grade: CR]

**RHAB 829 Clinical Dissertation Research III 1.0 Credit**

Through dissertation a student produces an original contribution of knowledge. Clinical Dissertation III consists of developing the dissemination product, defending the clinical dissertation and disseminating the project.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 5 times for 5 credits

**Restrictions:** Can enroll if major is RHAB.

**Prerequisites:** RHAB 282 [Min Grade: CR]

**RHAB 830 Dissertation Research 1.0-12.0 Credit**

Through dissertation a student demonstrates mastery of the research process unique to his/her specialty and produces an original contribution of knowledge. The dissertation process provides the student with the foundation for a continued career as a scholar. May be repeated for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 12 times for 12 credits

**Restrictions:** Can enroll if major is RHAB.

**RHAB 832 Leadership Practicum 3.0 Credits**

This course is designed for students interested in an administration and leadership mentored practicum to assist them in meeting their future career goals. Students are expected to develop a learning contract with specific objectives, and work with their faculty advisor to identify the resources needed to successfully complete this practicum.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 3 times for 9 credits

**Restrictions:** Can enroll if major is RHAB.

## Research

### Courses

**RSCH 503 Research Methods and Biostatistics 3.0 Credits**

This course provides an exploration of research concepts, literature searches, research methods, designs, data collection, analysis, and interpretation techniques. This course is designed to provide graduate students with the skills necessary to evaluate the relationship between practice and published research.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is NURS.

**RSCH 504 Evaluation and Translation of Health Research 3.0 Credits**

This course provides specific approaches to the evaluation of the quality and translation of relevant research. The student will learn to conduct efficient literature searches, evaluate the quality of that research through the appraisal of research design, methodology, and data analysis. Each student will develop and evaluate a plan for the translation of the research into their practice.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Prerequisites:** RSCH 503 [Min Grade: C]

**RSCH 519 Introduction to Biostatistics 3.0 Credits**

This is an introductory course which focuses on the fundamentals of biostatistics for health sciences graduate students. Excel-based and SPSS assignments will be used to supplement the content.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is HI or major is NURS.

**RSCH 523 Methods for Health Research 3.0 Credits**

The course is designed to provide professional graduate students with the skills necessary to evaluate the relationship between practice and published research. The course content includes an overview of research concepts, ethics in research, literature searches and reviews, quantitative and qualitative research methods and designs, and data collection, analysis and interpretation techniques. An interdisciplinary team of faculty teaches the course using a problem solving approach. When feasible, concepts and problems are addressed by students in interdisciplinary teams.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**Restrictions:** Can enroll if major is HI or major is NURS.

**Prerequisites:** RSCH 500 [Min Grade: C]

**RSCH 701 Introduction to Biostatistics for Clinical Research 3.0 Credits**

This is an introductory course which focuses on the fundamentals of biostatistics and clinical research for nursing graduate students. Excel-based and SPSS assignments will be used to supplement the content.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**RSCH 758 Application of Evidence to Practice 2.0 Credits**

The focus of this course is on finding, appraising, communicating, and applying knowledge and research to the health professions. Participants will develop competencies in clinical decision making for individual patients/clients and development and evaluation of health care services.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**RSCH 759 Foundations of Biostatistics 3.0 Credits**

This is an introductory course which focuses on the fundamentals of biostatistics for nursing and health science doctoral students. Excel-based and SPSS assignments are used to supplement the content. May be repeated once for credit.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 6 credits

**RSCH 811 Intermediate Biostatistics 3.0 Credits**

This is an advanced level statistics course focusing on repeated measures analysis of variance (ANOVA) and selected multivariate statistical tests used in the rehabilitation and health sciences and biomedical engineering.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Can be repeated 2 times for 6 credits

**RSCH 812 Interpretation of Data 3.0 Credits**

This is an advanced topics course on issues such as power and effect size calculations and interpretation of results of statistical analysis including output of statistical software packages.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

**RSCH 813 Measurement Theory in Healthcare 3.0 Credits**

The emphasis of this course is on the assessment of the uses, advantages, validity, reliability, and sources of error in measurement tools commonly used in healthcare and on methodological and outcome research methods.

**College/Department:** College of Nursing Health Professions

**Repeat Status:** Not repeatable for credit

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