

Drexel University

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The College of Nursing and Health Professions

The College of Nursing and Health Professions contains a wealth of opportunity for prospective students to train in many health care fields. Managed care, universal access to health care, an aging population and the emergence of sophisticated direct care and communication technologies are revolutionizing health care delivery.

The College of Nursing offers the following undergraduate programs:

- Behavioral Health Counseling
- Health Sciences (Pathway to Health Professions)
- Cardiovascular Perfusion Technology
- Health-Services Administration
- Invasive Cardiovascular Technology
- Nursing
- Radiologic Technology

Nursing

The College's faculty and staff are committed to educating nurses to think critically, make evidenced-based decisions and practice competently and compassionately in rapidly changing practice environments. To this end, the College supports faculty and staff in developing strong education, practice and research programs that demonstrate the efficacy, quality and cost effectiveness of nursing interventions in promoting health, preventing disease and caring for the ill.

All nursing efforts in the College are designed to build nursing knowledge, enhance nursing practice, foster professional integrity, and ultimately improve the health outcomes of patients, families and communities across the continuum of care.

The College is committed to excellence in nursing education through educational programs that are:

- *Rigorous*: We continuously review and redesign programs, courses and educational products for depth and quality with the learner's experience and background always in the foreground. A significant percentage of full time faculty practice as part of their academic workload and serve as excellent role models for developing clinicians. In addition, a growing number of full time faculty are engaged in research activities.
- *Relevant*: We continuously examine changing market forces, the progression of nursing knowledge and best practices in health care and education to redesign educational programs and products. There is a strong commitment to population focused practice in diverse, urban communities.
- *Learner Friendly*: In consideration of the demanding, fast-paced lives of our students and nurse consumers, we offer educational programs in convenient and contemporary formats including access to academic and continuing education web-based courses.

Accreditation

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

The Radiologic Technology program is accredited by JRCERTÉ

The College of Nursing and Health Professions

Center City Campus

New College Building was designed to be an education, research, and administrative facility for the University. Most seminar rooms, the library, laboratories, and lounge areas in the building are available for student use. There are lounge areas where students may gather to study or to relax together. The Office of the Dean for Student Life and the Office of University Student Life are located in this building.

Clinical Learning Resource Center

The Clinical Learning Resource Center (CLRC) provides a simulated environment in which students can safely learn and practice clinical skills. Students practice head-to-toe assessments, invasive as well as non-invasive procedures and interpersonal skills. Students also have an opportunity learn how to manage real-life emergencies and real-life clinical situation with SIM-MAN®, a simulated patient who has the ability to mimic patient scenarios.

The CLRC consists of:

- a physical assessment lab
- a media center and media classroom
- a nursing therapeutics lab
- two rehabilitation sciences labs
- SIM-MAN®

Center for Interdisciplinary Clinical Simulation Practice

The Center for Interdisciplinary Clinical Simulation and Practice (CICSP) is designed to simulate clinical settings, providing undergraduate and graduate students the opportunity to learn and enhance their skills. Drexel University's College of Nursing and Health Professions uses a state-of-the-art digital recording system through which all student-patient encounters are recorded. Students, faculty, and standardized patients (SPs) are able to observe their patient encounters at a later date as a form of self-evaluation. Students and SPs are digitally video/audio taped in patient examination rooms, each fully equipped with the necessary assessment tools as well as pan/zoom/tilt cameras and microphones.

Computers in every exam room and laptop stations outside each exam room enable standardized patients and students to complete checklists and post-encounter exercises based on the patient case. Students may also be asked to engage in patient education, interpret lab results, field difficult communication or ethical dilemmas, use psychotherapeutic techniques or use other clinical skill sets. All of this is achieved through the use of a sophisticated automated performance evaluation software application.

Members of the faculty are present during the standardized patient sessions, observing the digitally video-taped encounters from computer monitors. They then offer feedback to the student during follow-up discussions. This is all completed within the controlled and safe environment of our center. As a result, the students gain confidence and a level of comfort with SPs before working with real patients. Errors made or difficulties encountered with SPs can be addressed prior to the students working with real patients.

Creative Arts Therapies Studios

The PhD Program in Creative Arts Therapies has three separate art, dance/movement, and music therapy studio spaces. The studios are equipped for the intensive study of each art form within the therapy context for the purpose of enhancing clinical practice or generating research in the creative arts therapies.

The University Libraries

Four library branches serve the educational, clinical, and research needs of health sciences students at Drexel University. These branches house more than 185,000 volumes, receive approximately 1,500 current journal subscriptions, have access to the full text of more than 2,000 electronic journals and use up-to-date information technologies to provide access to institutional and intramural information sources.

Library collections are searchable through online catalogs at all library sites, or remotely via the Internet. Also available are MEDLINE, the primary database of biomedical information, and specialized databases including PSYCLIT (psychology) and PD! (cancer.) PCs and Macintosh computers are available, as well as computer-assisted instruction and simulation programs.

More information about the libraries, extensive electronic resources, and guides to services are available on the libraries' web site at www.library.drexel.edu.

Behavioral Health Counseling

The focus of the Behavioral Health Counseling program is on applied areas of competencies in clinical behavioral health services for people with mental illness and substance use disorders. Core courses offer a comprehensive selection of essential subject areas. When combined with advanced program electives, students may coordinate coursework with individual career goals, in areas such as psychiatric rehabilitation, prevention and treatment of substance disorders, children and adolescent behavioral health care services, and related community behavioral health services. During their freshman and sophomore years, students receive a grounding in the humanities and social sciences, as well as pursue courses in biological sciences, writing, math, and research methods.

The curriculum incorporates biological, psychological, and social sciences with emerging practice research and technologies that support the practical applications of transdisciplinary clinical competencies. Additionally, the Drexel Co-op component greatly enhances the student's preparation for employment after graduation and for continuing post-baccalaureate and graduate study. 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 web page on the College of Nursing and Health Profession's site.

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Behavioral Health Counseling

Bachelor of Science Degree: 180.0 credits

Degree requirements (incoming students, 2009/2010)

Students in the **Saturday Scholars Two-Year Program** may transfer in credits for courses in the following General Education areas (with the exception of BACS 210, which is a required course for students participating in that program).

General Education requirements		75.0 Credits
UNIV 101	The Drexel Experience	2.0
Communications course		
COM 230	Techniques of Speaking	3.0
Computing sequence		
CS 161	Introduction to Computing	3.0
PSY 364	Computer-Assisted Data Analysis I	3.0
Research methods		
SOC 250	Research Methods I	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
	English Literature elective, 200-level or higher	3.0
Biology sequence		
BIO 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	4.0
Mathematics sequence		
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
Humanities and Social Sciences		
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
HIST 203	US History since 1900	3.0
SOC 101	Introduction to Sociology	3.0
PHIL 105	Critical Reasoning	3.0
PSY 101	General Psychology	3.0
PSY 140	Approaches to Personality	3.0
PSY 240 WI	Abnormal Psychology	3.0
or		
BACS 210	Behavioral Disorders*	3.0
	Two humanities electives	6.0
	Fine arts elective	3.0
	History elective	3.0
Free Electives		36.0 Credits
	12 free electives	36.0

*Students in the Saturday Scholars Two-Year Program must take BACS 210.

Behavioral Health Counseling Courses		54.0 Credits
BACS 100	Life-Span Human Development	3.0
BACS 200 WI	Foundations of Behavioral Health Care	3.0
BACS 220	Theory and Practice of Counseling	3.0
BACS 230	Genetics and Mental Health	3.0
BACS 232 WI	Ethics and Professional Responsibility	3.0
BACS 234	Introduction to Addictive Disorders	3.0
BACS 236	Psychiatric Rehabilitation Practice and Principles	3.0
BACS 250	Behavioral Health Informatics	3.0
BACS 255	Multicultural Counseling Perspectives	3.0
BACS 301	Group Counseling I	3.0
BACS 304	Cognitive-Behavioral Counseling I	3.0
BACS 310	Recovery and Relapse Prevention Methods	3.0
BACS 320	Crisis and Brief-Interventions Counseling	3.0
BACS 325	Psychopharmacology for Counselors	3.0
BACS 401	Assessment and Treatment Planning	3.0
BACS 405	Family-Focused Interventions	3.0
BACS 490 WI	Senior Research Project	3.0
BACS 499	Readings in Behavioral Health	3.0

Advanced Program Electives		15.0 Credits
Students select a minimum of 15.0 credits, and up to 33.0 credits of advanced program electives (as needed) from the following:.		
BACS 312	Case Management Methods	3.0
BACS 350	Child Psychopathology	3.0
BACS 367	Addictions Counseling Interventions	3.0
BACS 368	Addictions Counseling with Special Populations	3.0
BACS 370	Gambling Addictions	3.0
BACS 390	Special Topics in Behavioral Health	3.0
BACS 404	Cognitive-Behavioral Counseling II	3.0
BACS 410	Child and Adolescent Support Services	3.0
BACS 411	Forensic Mental Health Services	3.0
BACS 412	Group Counseling II	3.0
BACS 414	Co-occurring Disorders	3.0
BACS 420	Psychiatric Rehabilitation Competencies	3.0

BS Behavioral Health Counseling Sciences
 4 YR UG Co-op Concentration

Recommended Plan Of Study

		Credits
Term 1		
<u>ANTH 101</u>	Introduction to Cultural Anthropology	3.0
<u>ENGL 101</u>	Expository Writing and Reading	3.0
<u>MATH 101</u>	Introduction to Analysis I	4.0
<u>PSY 101</u>	General Psychology I	3.0
<u>UNIV 101</u>	The Drexel Experience	1.0
	Fine arts elective	3.0
	<i>Term Credits</i>	<i>17.0</i>
Term 2		
<u>ENGL 102</u>	Persuasive Writing and Reading	3.0
<u>MATH 102</u>	Introduction to Analysis II	4.0
<u>PSY 140</u>	Approaches to Personality	3.0
<u>SOC 101</u>	Introduction to Sociology	3.0
<u>UNIV 101</u>	The Drexel Experience	1.0
	Free elective	3.0
	<i>Term Credits</i>	<i>17.0</i>
Term 3		
<u>BACS 100</u>	Life-Span Human Development	3.0
<u>COM 230</u>	Techniques of Speaking	3.0
<u>ENGL 103</u>	Analytical Writing and Reading	3.0
<u>PSY 240</u>	Abnormal Psychology	3.0
	Free elective	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 4		
<u>BACS 200</u>	Foundation of Behavioral Health Care	3.0
<u>BACS 220</u>	Counseling Theory and Practice	3.0
<u>BIO 102</u>	Biology I: Cells and Tissues	4.0
<u>PHIL 101</u>	Introduction to Philosophy	3.0
	English literature course 200-level or above	3.0
	<i>Term Credits</i>	<i>16.0</i>
Term 5		
<u>BACS 232</u>	Ethics and Prof Responsibility	3.0
<u>BIO 104</u>	Biology II: Growth and Heredity	4.0
<u>CS 161</u>	Introduction to Computing	3.0
<u>HIST 203</u>	US History since 1900	3.0
<u>SOC 250</u>	Research Methods I	3.0
	<i>Term Credits</i>	<i>16.0</i>
Term 6		
<u>BACS 230</u>	Genetics and Mental Health	3.0
<u>BACS 234</u>	Introduction to Addictive Disorders	3.0
<u>BACS 236</u>	Psychiatric Rehabilitation Principles and Practices	3.0
<u>PSY 364</u>	Computer-Assisted Data Analysis I	3.0
	Humanities elective	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 7		
<u>BACS 250</u>	Behavioral Health Informatics	3.0
<u>BACS 255</u>	Multicultural Counseling	3.0

	Free electives	6.0
	History elective	3.0
	Term Credits	15.0
Term 8		Credits
BACS 301	Group Counseling I	3.0
BACS 304	Cognitive-Behavioral Counseling I	3.0
BACS 310	Recovery and Relapse Prevention Methods	3.0
	Free elective	3.0
	Humanities elective	3.0
	Term Credits	15.0
Term 9		Credits
BACS 325	Pharmacology for Counselors	3.0
BACS 320	Crisis and Brief Intervention	3.0
	BACS Advanced Program elective (See degree requirements for list)	3.0
	Free electives	6.0
	Term Credits	15.0
Term 10		Credits
BACS 401	Assessment/Treatment Planning	3.0
BACS 405	Family-Focused Interventions	3.0
	BACS Advanced Program elective (See degree requirements for list)	3.0
	Free elective	3.0
	Term Credits	12.0
Term 11		Credits
BACS 490	Senior Research Project	3.0
	BACS Advanced Program elective (See degree requirements for list)	3.0
	Free electives	6.0
	Term Credits	12.0
Term 12		Credits
BACS 499	Readings in Behavioral Health	3.0
	BACS Advanced Program electives (See degree requirements for list)	6.0
	Free electives	6.0
	Term Credits	15.0
	Total Credits (minimum)	180.0

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Minor in Addictions Counseling

About the minor

The minor in addictions counseling is designed to provide students with an essential focus on current best-practice approaches in counseling interventions aimed at assisting people to recover from substance use disorders. This minor is expected to appeal 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 Foodss, 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 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	Theory and Practice of Counseling	3.0
BACS 234	Introduction to Addictive Disorders	3.0
BACS 304	Cognitive-Behavioral Counseling I	3.0
BACS 310	Recovery and Relapse Prevention Methods	3.0

Students select a minimum of three courses from the following list of electives:

BACS 232 WI	Ethics and Professional Responsibility	3.0
BACS 255	Multicultural Counseling Perspectives	3.0
BACS 301	Group Counseling I	3.0
BACS 312	Case Management Methods	3.0
BACS 325	Psychopharmacology for Counselors	3.0
BACS 368	Addictions Counseling with Special Populations	3.0
BACS 370	Gambling Addictions	3.0
BACS 401	Assessment and Treatment Planning	3.0
BACS 412	Group Counseling II	3.0
BACS 414	Co-occurring Disorders	3.0

Minor in Psychiatric Rehabilitation

About the minor

The minor in psychiatric rehabilitation is designed to provide students with an essential focus on clinical competencies in implementing evidence-based rehabilitation services to people with serious mental illness. This minor is expected to appeal 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 Foodss, 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 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	Theory and Practice of Counseling	3.0
BACS 236	Psychiatric Rehabilitation Practice and Principles	3.0
BACS 320	Crisis and Brief-Interventions Counseling	3.0
BACS 325	Psychopharmacology for Counselors	3.0
BACS 420	Psychiatric Rehabilitation Competencies	3.0

Students select a minimum of three courses from the following list of electives:

BACS 200 WI	Foundations of Behavioral Health Care	3.0
BACS 230	Genetics and Mental Health	3.0
BACS 234	Introduction to Addictive Disorders	3.0
BACS 255	Multicultural Counseling Perspectives	3.0
BACS 301	Group Counseling I	3.0
BACS 304	Cognitive-Behavioral Counseling I	3.0
BACS 401	Assessment and Treatment Planning	3.0
BACS 404	Cognitive-Behavioral Counseling II	3.0
BACS 405	Family-Focused Interventions	3.0
BACS 411	Forensic Mental Health Services	3.0
BACS 412	Group Counseling II	3.0
BACS 414	Co-occurring Disorders	3.0

Pathway to Health Professions: Health Sciences

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. Co-op employment is an important part of the Behavioral Health Counseling curriculum. Co-operative employment experiences are directed toward activities that will expose students to the varied work environments of behavioral health professionals. These work settings provide students with the opportunity to observe mental health and addictions professionals in action, while assessing their own potentials and individualized interests for a career in behavioral health. The Drexel Co-op is based on options for paid employment selected from among a variety of clinical behavioral health settings where positions consistent with the interests, abilities, and aptitudes of the students have been identified. A small percentage of students accept non-paid co-ops.

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 page at the College of Nursing and Health Professions web site.

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Pathway to Health Professions: Health Sciences

Bachelor of Science Degree: 180.0 credits

Degree requirements (incoming students, 2009/2010)

General requirements		56.0 Credits
UNIV 101	The Drexel Experience	2.0
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
Biology sequence		
BIO 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	4.0
BIO 106	Biology III: Organismal Biology	4.0
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
Other Humanities and Social Sciences courses		
COM 310 WI	Technical Communication	3.0
COM 320	Science Writing	3.0
ECON 240	Economics of Health Care Systems	4.0
HSAD 210	Health Care Ethics	3.0
HSAD 309	Advanced Health Care Ethics	3.0
PSY 101	General Psychology	3.0
PSY 120	Developmental Psychology	3.0
PSY 240	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
3 Humanities and Social Sciences electives		9.0

Pathway to Health Professions Courses

**69.0
Credits**

Anatomy & Physiology courses

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

Clinical Research courses

HSCI 310	Introduction to Clinical Research	3.0
HSCI 313	Clinical Trials Protocols	3.0
HSCI 315	Current Issues in Clinical Research	3.0

Other Health Sciences courses

HSCI 201	Health Assessment	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
HSCI 490	Senior Research Project	3.0
STS 345	Statistics for Health Sciences	4.0
STS 350	Advanced Statistics for Clinical Sciences	4.0
4 Health Sciences electives*		15.0

*Health 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 Electives.

Free Electives	18.0 Credits
6 free electives	18.0

Recommended Plan Of Study

BS Health Sciences 4 YR UG Co-op Concentration

Term 1		Credits
BIO 102	Biology I: Cells and Tissues	4.0
CHEM 101	General Chemistry I	3.5
CS 161	Introduction to Computing	3.0
ENGL 101	Expository Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
	Term Credits	14.5
Term 2		Credits
BIO 104	Biology II: Growth & Heredity	4.0
CHEM 102	General Chemistry II	4.5
ENGL 102	Persuasive Writing and Reading	3.0
MATH 101	Introduction to Analysis I	4.0
UNIV 101	The Drexel Experience	2.0
	Term Credits	17.5
Term 3		Credits
BIO 106	Biology III: Organismal Biology	4.0
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	16.0
Term 4		Credits
ANAT 101	Anatomy & Physiology I	5.0
COM 310	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
Term 5		Credits
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
Term 6		Credits
ANAT 103	Anatomy & Physiology III	5.0
COM 320	Science Writing	3.0
HSAD 309	Advanced Health-Care Ethics	3.0
HSCI 310	Introduction to Clinical Research	3.0
	Term Credits	14.0
Term 7		Credits
HSCI 201	Health Assessment	4.0
HSCI 301	Pharmacology I	3.0
HSCI 313	Clinical Trials Protocols	3.0
SOC 101	Introduction to Sociology	3.0
	Free elective	3.0
	Term Credits	16.0
Term 8		Credits

BIO 226	Microbiology for Health Professionals	5.0
HSCI 337	Genetics & Health	3.0
	Free electives	6.0
	Term Credits	14.0
Term 9		Credits
HSCI 302	Pharmacology II	3.0
HSCI 315	Current Issues in Clinical Research	3.0
PSY 120	Developmental Psychology	3.0
SOC 120	Sociology of the Family	3.0
	Free elective	3.0
	Term Credits	15.0
Term 10		Credits
ECON 240	Economics of Health Care Systems	4.0
	Free elective	3.0
	Health electives (See degree requirements)	8.0
	Term Credits	15.0
Term 11		Credits
SOC 125	Sociology of the Aging	3.0
	Free elective	3.0
	Health elective (See degree requirements)	3.0
	Humanities/Social Science electives	6.0
	Term Credits	15.0
Term 12		Credits
HSCI 490	Senior Research Project	3.0
PSY 240	Abnormal Psychology	3.0
	Health elective (See degree requirements)	4.0
	Humanities/Social Science elective	3.0
	Term Credits	13.0
	Total Credits (minimum)	180.0

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Health Sciences - Accelerated Career Entry (ACE) BSN Option

Bachelor of Science in Nursing Degree 214.0 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 Program" 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 enter this program either as freshmen or as transfer students.

Freshman year

Fall Quarter		Credits
BIO 102	Biology I: Cells and Tissues	4.0
CHEM 101	General Chemistry I	3.5
CS 161	Introduction to Computing	3.0
ENGL 101	Expository Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
Total credits		15.0
Winter Quarter		
BIO 104	Biology II: Growth and Heredity	4.0
CHEM 102	General Chemistry II	4.5
ENGL 102	Persuasive Writing and Reading	3.0
MATH 101	Introduction to Analysis I	4.0
UNIV 101	The Drexel Experience	1.0
Total credits		16.0
Spring Quarter		
BIO 106	Biology III: Organismal Biology	4.0
CHEM 103	General Chemistry III	5.0
ENGL 103	Techniques of Analysis Evaluation	3.0
MATH 102	Introduction to Analysis II	4.0
Total credits		16.0

Sophomore year

Fall Quarter		
ANAT 101	Anatomy & Physiology I	5.0
COM 310 WI	Technical Communication	3.0
HSAD 210	Health Care Ethics	3.0
STS 345	Statistics for Health Sciences	4.0
Total credits		15.0
Winter Quarter		
ANAT 102	Anatomy & Physiology II	5.0
HSCI 204	Clinical Health Informatics	3.0
PSY 101	General Psychology	3.0
STS 350	Advanced Statistics for Clinical Sciences	4.0

Total credits		15.0
Spring Quarter		
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	Science Writing	3.0
Total credits		14.0
Summer Quarter		
HSCI 201	Health Assessment	4.0
HSCI 301	Pharmacology I	3.0
HSCI 313	Clinical Trials Protocols	3.0
NFS 200 WI	Nutrition I: Principles of Nutrition	4.0
SOC 101	Introduction to Sociology	3.0
Total credits		17.0

Junior year

Spring Quarter		
HSCI 337	Genetics and Health	3.0
BIO 226	Microbiology for Health Professionals	5.0
	Health elective*	4.0
	Free elective	4.0
Total credits		12.0

*Health 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 Electives.

Summer Quarter		
HSCI 302	Pharmacology II	3.0
HSCI 315	Current Issues in Clinical Research	3.0
NFS 203	Nutrition II: Nutrition in the Life Cycle	4.0
PSY 120	Developmental Psychology	3.0
SOC 120	Sociology of the Family	3.0
Total credits		16.0

Senior year

Fall Quarter		
ECON 240	Economics of Health Care Systems	4.0
NURS 100 WI	Nursing in Society	3.0
NURS 102	Health Promotion, Teaching and Self Care	4.0
NURS 200	Principles of Nursing Practice	4.0
Total credits		17.0

Winter Quarter		
NURS 300	Comprehensive Adult Nursing I	6.0
NURS 303	Women's Health Nursing	6.0
NURS 308	Mental Health Nursing	6.0
Total credits		18.0

Spring Quarter		
NURS 304	Nursing of Children	6.0
NURS 305	Comprehensive Adult Nursing II	6.0
NURS 403	Community Public Health Nursing	6.0
Total credits		18.0

Summer Quarter		
NURS 330 WI	Research Basis of Nursing	4.0
NURS 400 WI	Leadership, Management, and Entrepreneurship in Nursing	4.0

NURS 401	Comprehensive Adult Nursing III	6.0
NURS 450	Contemporary Gerontological Nursing	6.0
NURS 492	Senior Seminar in Nursing	3.0
	Total credits	23.0

Pathway to Health Professions: Health Sciences

Dual and Accelerated Degree Opportunities

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 and a sample curriculum, visit the Pathway to Health Professions Program: Accelerated Dual Degree Programs page.

Pathway to Health Professions: Health Sciences

Dual and Accelerated Degree Opportunities

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 available to Biological Science majors (4-year program) only.

For additional information and a sample curriculum, visit the Pathway to Health Professions Program: Accelerated Dual Degree Programs page.

Health-Services Administration

Bachelor of Science Degree Program: 180.0 quarter credits

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 will be available online. A maximum of 90 semester credits can be transferred, including block credits from approved hospital-based certificate and diploma programs.

For more information, visit the Health-Services Administration page at the College of Nursing and Health Professions web site.

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Health-Services Administration

Bachelor of Science Degree: 181.0 quarter credits

Degree requirements (incoming students, 2009/2010)

Three course sequence in English

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

Three biology courses

BIO 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	4.0
BIO 106	Biology III: Organismal Biology	4.0

Mathematics course

MATH 101	Introduction to Analysis I	4.0
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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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Two course sequence in Drexel Experience

UNIV 101	The Drexel Experience	2.0
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Health Services Administration courses

HSAD 210	Health-Care Ethics	3.0
HSAD 309	Advanced Health Care Ethics	3.0
HSAD 310	Health-Systems Administration	3.0
HSAD 316	Healthcare Across Cultures*	3.0
HSAD 317	Religious Views on Health Care*	3.0
HSAD 320	Managed Health Care*	3.0
HSAD 321	Health-Care Human Resources	3.0
HSAD 322	Health-Care Law	3.0
HSAD 325	Issues in the Healthcare System*	3.0
HSAD 330	Financial Management in Healthcare	3.0
HSAD 331	Health. Business and Advocacy	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 and Management in Health-Services Administration	3.0
	5 Health Services Administration (HSAD) electives	15.0

*Students may check with the HSA Program Director for permission to make a course

substitution.

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	Business Statistics I	4.0

Humanities and Social Sciences Courses

ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
COM 111	Principles of Communication	3.0
COM 230	Techniques of Speaking	3.0
PHIL 105	Critical Reasoning	3.0
PSCI 110	American Government I	4.0
PSY 101	General Psychology	3.0
PSY 120	Developmental Psychology	3.0
PSY 240	Abnormal Psychology	3.0
PSY 250	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

9 Free electives		26.0
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Recommended Plan Of Study

BS Health Services Administration

4 YR UG Co-op Concentration
Same as SP/SU cycle

Term 1		Credits
BIO 102	Biology I: Cells and Tissues	4.0
CS 161	Introduction to Computing	3.0
ENGL 101	Expository Writing and Reading	3.0
SOC 101	Introduction to Sociology	3.0
UNIV 101	The Drexel Experience	1.0
	Term Credits	14.0
Term 2		Credits
BIO 104	Biology II: Growth and Heredity	4.0
ENGL 102	Persuasive Writing and Reading	3.0
HSAD 310	Health-Systems Administration	3.0
MATH 101	Introduction to Analysis I	4.0
UNIV 101	The Drexel Experience	1.0
	Term Credits	15.0
Term 3		Credits
ACCT 115	Financial Accounting Foundations	4.0
BIO 106	Biology III: Organismal Biology	4.0
ENGL 103	Analytical Writing and Reading	3.0
HSAD 334	Management of Health Services	3.0
	Term Credits	14.0
Term 4		Credits
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
	Term Credits	18.0
Term 5		Credits
ANTH 101	Introduction to Cultural Diversity	3.0
HSCI 204	Clinical Health Informatics	3.0
ORGB 300	Organizational Behavior	4.0
SOC 215	Industrial Sociology	3.0
	Free elective	3.0
	Term Credits	16.0
Term 6		Credits
COM 280	Public Relations	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
	Free elective	3.0
	Term Credits	15.0
Term 7		Credits
COM 230	Techniques of Speaking	3.0
HSAD 321	Health-Care Human Resources	3.0
HSAD 322	Health-Care Law	3.0
PSY 250	Industrial Psychology	3.0
	Free elective	3.0

	Term Credits	15.0
Term 8		Credits
HSAD 316	Health Care across Cultures	3.0
HSAD 331	Health, Business and Advocacy	3.0
PSY 120	Developmental Psychology	3.0
	Free elective	3.0
	Health Services Administration (HSAD) elective	3.0
	Term Credits	15.0
Term 9		Credits
HSAD 309	Advanced Health-Care Ethics	3.0
HSAD 332	Health-Care Marketing	3.0
SOC 115	Social Problems	3.0
	Free elective	3.0
	Health Services Administration (HSAD) elective	3.0
	Term Credits	15.0
Term 10		Credits
HSAD 320	Managed Health Care	3.0
PSY 240	Abnormal Psychology	3.0
SOC 125	Sociology of the Aging	3.0
	Free elective	3.0
	Health Services Administration (HSAD) elective	3.0
	Term Credits	15.0
Term 11		Credits
HSAD 325	Issues in Health Care System	3.0
HSAD 335	Health-Care Policy	3.0
SOC 235	Sociology of Health	3.0
	Free elective	3.0
	Health Services Administration (HSAD) elective	3.0
	Term Credits	15.0
Term 12		Credits
HSAD 317	Religious Views on Health Care	3.0
HSAD 340	Leadership and Management in Health Services Administration	3.0
	Free electives	5.0
	Health Services Administration (HSAD) elective	3.0
	Term Credits	14.0
	Total Credits (minimum)	181.0

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Minor in Health Services Administration

25.0 credits

This minor 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	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 210	Health-Care Ethics	3.0
or		
HSAD 309	Advanced Health-Care Ethics	3.0
HSAD 335	Health-Care Policy	3.0
HSAD 340	Leadership and Management in Health Services	3.0

Invasive Cardiovascular Technology

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, contact the College of Nursing and Health Professions about the program.

Invasive Cardiovascular Technology

Admissions 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 about the program.

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Invasive Cardiovascular Technology

Bachelor of Science Degree: 185.0 credits

Registered Radiology Technologist (ARRT)

**50.0
Credits***

*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.

General requirements

**39.0
Credits**

3-Course 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

3-Course sequence in Natural Sciences

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

Computer Science course

CS 161	Introduction to Computing	3.0
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Mathematics course

MATH 100	Fundamentals of Mathematics	3.0
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2-Course sequence in Social/Behavior Science

PSY 101	General Psychology	3.0
PSY 240	Abnormal Psychology	3.0

Informatics course

HSCI 204	Clinical Health Informatics	3.0
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Total Transfer of A.S. to BS course hours:

**(89.0
Credits)**

Invasive Cardiovascular (ICVT) Required Courses

**95.0
Credits**

ICVT Core courses

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 and Imaging	2.0
ICVT 306	EGG and Special Topics	4.0
ICVT 308	Cardiovascular Angiography	3.0
ICVT 309	Hemodynamic Data I	4.0
ICVT 310	Radiation Safety and Equipment	3.0
ICVT 311	Patient Assessment II	2.0
ICVT 312	Clinical Practicum I	8.0
ICVT 406	Disease and 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

Additional Required Health Sciences courses

CHEM 108	Health Chemistry I	3.0
HSAD 210	Ethics I	3.0
HSAD 315	Interdisciplinary Health Survey	3.0
HSAD 301	Pharmacology I	3.0
HSAD 302	Pharmacology II	3.0

Recommended 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
	<i>Term Credits</i>	<i>14.0</i>
Term 2		Credits
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
	<i>Term Credits</i>	<i>15.0</i>
Term 3		Credits
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
	<i>Term Credits</i>	<i>17.0</i>
Term 4		Credits
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
	<i>Term Credits</i>	<i>16.0</i>
Term 5		Credits
ICVT 406	Disease & Medical Emergencies	3.0
ICVT 407	Cardiovascular Review I	4.0
ICVT 422	Clinical Practicum III	10.0
	<i>Term Credits</i>	<i>17.0</i>
Term 6		Credits
HSCI 302	Pharmacology II	3.0
ICVT 410	Cardiovascular Review II	5.0
ICVT 432	Clinical Practicum IV	8.0
	<i>Term Credits</i>	<i>16.0</i>
Term 7		Credits
	<i>Term Credits</i>	<i>0.0</i>
Term 8		Credits
	<i>Term Credits</i>	<i>0.0</i>
Term 9		Credits
	<i>Term Credits</i>	<i>0.0</i>
Term 10		Credits
	<i>Term Credits</i>	<i>0.0</i>

Term 11		Credits
	<i>Term Credits</i>	<i>0.0</i>
Term 12		Credits
	<i>Term Credits</i>	<i>0.0</i>
	Total Credits (minimum)	95.0

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BS in Nursing (BSN)

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 page.

BSN Co-Op Program

BSN Co-op Program

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.

Drexel University

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Nursing

Bachelor of Science Degree: 182.0 credits

Required courses (incoming students, 2009/2010)

General requirements

UNIV 101	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	5.0
NFS 200 WI	Nutrition I: Principles of Nutrition	4.0
NFS 203	Nutrition II: Nutrition in the Life Cycle	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 for Health Care Systems	4.0
PSY 101	General Psychology	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	3.0
	Humanities elective	3.0
	Social science elective	3.0

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

Computing/Data Analysis courses

INFO 204	Nursing Informatics	3.0
CS 161	Introduction to Computing	3.0
PSY 364	Computer-Assisted Data Analysis I*	3.0

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

Anatomy courses

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

Nursing courses

NURS 100	Nursing in Society	3.0
NURS 102	Health Promotion, Teaching and Self Care	3.0
NURS 200	Principles of Nursing Practice	6.0
NURS 201	Health Assessment Across the Life Span	4.0
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	Research Basis of Nursing	4.0
NURS 337	Genetics in Nursing and Health	3.0
NURS 339	Pathophysiology	3.0
NURS 388	Nursing Case Study Integration I	1.0
NURS 400	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 Integration II	1.0
NURS 489	Synthesis of Nursing Knowledge	4.0
NURS 490	Senior Project in Nursing I	3.0
NURS 492	Senior Seminar in Nursing	3.0
	Nursing elective*	3.0

*Nursing electives include either NURS 481, NURS 482, NURS 501, or NURS 336.

Free Electives

	2 Free electives	6.0
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Recommended Plan Of Study

BS Nursing, Fall/Winter Co-Op 5 YR UG Co-op Concentration

Term 1		Credits
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
	<i>Term Credits</i>	<i>15.0</i>
Term 2		Credits
ANAT 102	Anatomy & Physiology II	5.0
CHEM 103	General Chemistry III	5.0
CS 161	Introduction to Computing	3.0
ENGL 102	Persuasive Writing and Reading	3.0
	<i>Term Credits</i>	<i>16.0</i>
Term 3		Credits
ANAT 103	Anatomy & Physiology III	5.0
BIO 226	Microbiology for Health Professions	5.0
ENGL 103	Analytical Writing and Reading	3.0
NURS 100	Nursing in Society	3.0
UNIV 101	The Drexel Experience	1.0
	<i>Term Credits</i>	<i>17.0</i>
Term 4		Credits
INFO 204	Nursing Informatics	3.0
NURS 102	Health Promotion, Teaching and Self Care	3.0
NURS 200	Principles of Nursing Practice	6.0
NURS 201	Health Assessment Across the Life Span	4.0
	<i>Term Credits</i>	<i>16.0</i>
Term 5		Credits
NFS 200	Nutrition I: Principles of 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
	<i>Term Credits</i>	<i>16.0</i>
Term 6		Credits
NURS 308	Mental Health Nursing	6.0
NURS 337	Genetics in Nursing and Health	3.0
NURS 339	Pathophysiology	3.0
NURS 388	Nursing Case Study Integration I	1.0
PSY 120	Developmental Psychology	3.0
	<i>Term Credits</i>	<i>16.0</i>
Term 7		Credits
NFS 203	Nutrition II: Nutrition in the Lifecycle	4.0
NURS 305	Comprehensive Adult Nursing II	6.0
NURS 306	Pharmacology for Nursing II	3.0
NURS 488	Nursing Case Study Integration II	1.0
SOC 125	Sociology of Aging	3.0
	<i>Term Credits</i>	<i>17.0</i>

Term 8		Credits
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	3.0
	Social science elective	3.0
	Term Credits	15.0
Term 9		Credits
NURS 304	Nursing of Children	6.0
NURS 400	Leadership, Management, and Entrepreneurship in Nursing	3.0
	Free elective	3.0
	Term Credits	12.0
Term 10		Credits
ECON 240	Economics of Health Care Systems	4.0
NURS 330	Research Basis of Nursing	4.0
NURS 401	Comprehensive Adult Nursing III	6.0
NURS 336	Alternative and Complementary Health Interventions	3.0
or		
NURS 501	Dimensions of Human Sexuality in Health & Illness	3.0
or		
NURS 482	Cultural Dimensions of Nursing Care	3.0
or		
NURS 481	Issues & Resolutions in End of Life Care	3.0
	Term Credits	17.0
Term 11		Credits
NURS 403	Community Public Health Nursing	6.0
NURS 489	Synthesis of Nursing Knowledge	4.0
	Humanities elective	3.0
	Term Credits	13.0
Term 12		Credits
NURS 450	Contemporary Gerontological Nursing	6.0
NURS 492	Senior Seminar in Nursing	3.0
	Free elective	3.0
	Term Credits	12.0
	Total Credits (minimum)	182.0

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Recommended Plan Of Study

BS Nursing, Spring/Summer Co-Op 5 YR UG Co-op Concentration

Term 1		Credits
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
	<i>Term Credits</i>	<i>15.0</i>
Term 2		Credits
ANAT 102	Anatomy & Physiology II	5.0
CHEM 103	General Chemistry III	5.0
CS 161	Introduction to Computing	3.0
ENGL 102	Persuasive Writing and Reading	3.0
	<i>Term Credits</i>	<i>16.0</i>
Term 3		Credits
ANAT 103	Anatomy & Physiology III	5.0
BIO 226	Microbiology for Health Professions	5.0
ENGL 103	Analytical Writing and Reading	3.0
NURS 100	Nursing in Society	3.0
UNIV 101	The Drexel Experience	1.0
	<i>Term Credits</i>	<i>17.0</i>
Term 4		Credits
INFO 204	Nursing Informatics	3.0
NURS 102	Health Promotion, Teaching and Self Care	3.0
NURS 200	Principles of Nursing Practice	6.0
NURS 201	Health Assessment Across the Life Span	4.0
	<i>Term Credits</i>	<i>16.0</i>
Term 5		Credits
NFS 200	Nutrition I: Principles of 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
	<i>Term Credits</i>	<i>16.0</i>
Term 6		Credits
NURS 308	Mental Health Nursing	6.0
NURS 337	Genetics in Nursing and Health	3.0
NURS 339	Pathophysiology	3.0
PSY 120	Developmental Psychology	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 7		Credits
NFS 203	Nutrition II: Nutrition in the Life Cycle	4.0
NURS 305	Comprehensive Adult Nursing II	6.0
NURS 306	Pharmacology for Nursing II	3.0
NURS 388	Nursing Case Study Integration I	1.0
SOC 125	Sociology of Aging	3.0
	<i>Term Credits</i>	<i>17.0</i>
Term 8		Credits

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	3.0
	Social science elective	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 9		Credits
NURS 304	Nursing of Children	6.0
NURS 400	Leadership, Management, and Entrepreneurship in Nursing	3.0
NURS 488	Nursing Case Study Integration II	1.0
	Free elective	3.0
	<i>Term Credits</i>	<i>13.0</i>
Term 10		Credits
ECON 240	Economics of Health Care Systems	4.0
NURS 330	Research Basis of Nursing	4.0
NURS 401	Comprehensive Adult Nursing III	6.0
NURS 336	Alternatv & Complmt Hlth Intrv	3.0
or		
NURS 501	Dimensions of Human Sexuality in Health & Illness	3.0
or		
NURS 482	Cultural Dimensions of Nursing Care	3.0
or		
NURS 481	Issues & Resolutions in End of Life Care	3.0
	<i>Term Credits</i>	<i>17.0</i>
Term 11		Credits
NURS 403	Community Public Health Nursing	6.0
NURS 489	Synthesis of Nursing Knowledge	4.0
	Humanities elective	3.0
	<i>Term Credits</i>	<i>13.0</i>
Term 12		Credits
NURS 450	Contemporary Gerontological Nursing	6.0
NURS 492	Senior Seminar in Nursing	3.0
	Free elective	3.0
	<i>Term Credits</i>	<i>12.0</i>
	Total Credits (minimum)	182.0

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Accelerated Career Entry (ACE) BSN Option

Drexel University offers the Accelerated Career Entry Option, 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.

Clinical Placement Sites

The undergraduate nursing programs have an extensive network of clinical placement sites in the tri-state area.

ACE Admission Requirements and 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.

Prerequisites

Subject	Completed Credits (Semester hours)
English	6.0
Sociology	3.0
Psychology	3.0
Developmental Psychology	3.0
Ethics	3.0
Nutrition	3.0
Chemistry	4.0
Microbiology*	4.0
Anatomy*	4.0
Physiology*	4.0
Computer Science/Public Speaking	3.0
Statistics	3.0

*Anatomy, physiology, and microbiology courses must have been taken within five years of beginning 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.

RN/BSN Completion 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 Program page.

Degree Requirements

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:

Requirement	Semester Hours
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

Articulation Credits

Graduates of National League for Nursing (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.

RN/BSN Completion Program

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	Credits
ENGL 101	3.0
ENGL 102	3.0
ENGL 103	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	Credits
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	Credits
NURS 325 Critical Issues Shaping Professional Nursing	3.0
NURS 340 Transformational Leadership/Management in Nursing	3.0
NURS 346 Health Assessment and Promotion for Diverse and Vulnerable Populations	6.0
NURS 404 Nursing Informatics	3.0

Level Two Courses	Credits
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NURS 330	Research Basis of Nursing	4.0
NURS 337	Genetics in Nursing and Health	3.0
NURS 370	Issues in Aging and Longevity	4.0
NURS 375	Nurses Building a Healthy Community: Theory and Practice	6.0

Level Three Courses	Credits
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NURS 460	Global Health and Policy Issues	6.0
NURS 462	Science, Technology, and Health: A Nursing Perspective	6.0
NURS 464	Senior Concentration in Nursing	3.0
or		
NURS 465	Senior Thesis in Nursing	

Top

RN to BSN to MSN Opportunities

Students interested in an MSN should visit the College of Nursing's MSN Program web site or www.drexel.com.

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

- MSN in Contemporary Nursing Faculty
- 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 College of Nursing and Health Profession's admission web site.

Students may not register for graduate courses until they are accepted in the program. Once accepted into either the Nurse Anesthesia or the Nurse Practitioner program, students may take graduate courses in lieu of NURS 460 Global Health or NURS 462 Science, Technology & Health. A maximum of 3 graduate courses (9 credits) are permitted during the BSN sequence. Students must complete their remaining course requirements, and are required to take NURS 465 Senior Thesis.

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.

Radiologic Technology

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 Radiology 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 page on the College of Nursing and Health Professions web site.

Drexel University

Catalog 2009/2010

Radiologic Technology

Associate in Science Degree: 104.0 credits

Required courses (incoming students, 2009/2010)

Degree Requirements

UNIV 101	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	3.0
PSY 240	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	Principles of Radiographic Exposure III	2.0
RADI 201	Medical Imaging	2.0
RADI 203	Principles of Radiographic 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	2.0
RADI 194	Methods of Patient Care II	1.0
RADI 195	Clinical Practicum I	2.0
RADI 196	Clinical Practicum II	1.0
RADI 197	Clinical Practicum III	1.0
RADI 198	Clinical Practicum IV	1.0
RADI 291	Clinical Practicum V	2.0
RADI 292	Clinical Practicum VI	2.0
RADI 293	Clinical Practicum VII	2.0

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog indicates that this course can fulfill a writing-intensive requirement. Departments will designate specific sections of such courses as writing-intensive. Sections of writing-intensive courses are not indicated in this catalog. Students should check the section comments in Banner when registering. Students scheduling their courses in Banner can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term. For more information on writing-intensive courses, see the Drexel University Writing Program's Writing-Intensive Course page.

Recommended Plan Of Study

AS Radiologic Technology Program

		Credits
Term 1		
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 101	The Drexel Experience	1.0
	<i>Term Credits</i>	<i>14.0</i>
Term 2		
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
RADI 196	Clinical Practicum II	1.0
UNIV 101	The Drexel Experience	1.0
	<i>Term Credits</i>	<i>17.0</i>
Term 3		
ANAT 102	Anatomy & Physiology II	5.0
ENGL 101	Expository Writing and Reading	3.0
RADI 132	Radiologic Physics I	3.0
RADI 154	Principles of Radiographic Exposure III	2.0
RADI 166	Radiographic Procedures III	3.0
RADI 197	Clinical Practicum III	1.0
	<i>Term Credits</i>	<i>17.0</i>
Term 4		
ANAT 103	Anatomy & Physiology III	5.0
ENGL 102	Persuasive Writing and Reading	3.0
RADI 133	Radiologic Physics II	3.0
RADI 198	Clinical Practicum IV	2.0
	<i>Term Credits</i>	<i>13.0</i>
Term 5		
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 Radiographic Exposure IV	2.0
RADI 215	Radiation Biology	3.0
RADI 291	Clinical Practicum V	2.0
	<i>Term Credits</i>	<i>16.0</i>
Term 6		
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
	<i>Term Credits</i>	<i>13.0</i>

Term 7		Credits
CS 161	Introduction to Computing	3.0
PSY 240	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
	Term Credits	14.0
Term 8		Credits
	Term Credits	0.0
Term 9		Credits
	Term Credits	0.0
Term 10		Credits
	Term Credits	0.0
Term 11		Credits
	Term Credits	0.0
Term 12		Credits
	Term Credits	0.0
	Total Credits (minimum)	104.0

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Certificate in Medical Billing and Coding

18.0 credits

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.

For additional information about this online certificate program (including admissions criteria) visit the Drexel Online University web site and view the Certificate in Medical Billing and Coding web page

Required courses		18.0 Credits
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

Students who place out of any of the above courses can substitute any of the following courses (provided that the prerequisites are met):

MBC 101	Medical Terminology for Billers & Coders	3.0
MBC 250	Medical Billing Software	3.0
MBC 350	Physician-Based Chart Auditing	3.0
MBC 360	Hospital-Based Case Studies	3.0