

Drexel University
CATALOG 2011-2012

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The College of Nursing and Health Professions

About the College

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.

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.

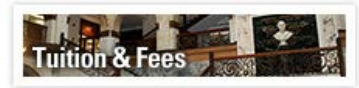
All nursing efforts in the College are designed to build nursing knowledge, enhance nursing practice, foster professional integrity, and ultimately improve the health outcomes of patients, families and communities across the continuum of care. The College is committed to excellence in nursing education 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 JRCERT (Joint Review Committee on Education in Radiologic Technology).



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Behavioral Health Counseling

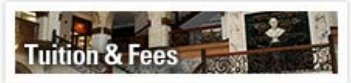
About the Program

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](#) Department on the College of Nursing and Health Profession's site.



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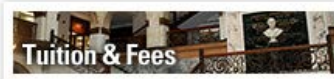
Behavioral Health Counseling

Bachelor of Science Degree: 180.0 quarter credits

Degree Requirements

Incoming students, 2011/2012

General Education requirements		30.0 Credits
UNIV 101	The Drexel Experience	2.0
Computing requirement		
CS 161	Introduction to Computing	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
Natural Science sequence		
BIO 107	Cells, Genetics and Physiology	3.0
BIO 108	Cells, Genetics and Physiology Lab	1.0
BIO 109	Biological Diversity, Ecology and Evolution	3.0
BIO 110	Biological Diversity, Ecology and Evolution Lab	1.0
or		
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
Mathematics sequence		
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
Humanities and Social Sciences Electives		39.0 Credits
Free Electives		42.0 Credits
Behavioral Health Counseling Courses		54.0 Credits
BACS 100	Life-Span Human Development	3.0
BACS 200	Foundations of Behavioral Health Care	3.0
BACS 220	Counseling Theory and Practice	3.0
BACS 230	Genetics and Mental Health	3.0



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BACS 232	Ethics and Professional Responsibility	3.0
BACS 234	Introduction to Addictive Disorders	3.0
BACS 236	Psychiatric Rehabilitation Principles and Practices	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 312	Case Management 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	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 250	Behavioral Health Informatics	3.0
BACS 350	Child Psychopathology	3.0
BACS 360	Preventing Substance Abuse	3.0
BACS 367	Advanced Counseling Interventions	3.0
BACS 368	Addictions Counseling with Special Populations	3.0
BACS 370	Gambling Addictions	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

Writing-Intensive Course Requirements

In order to graduate, all students 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 may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the [Writing Intensive Course List](#) on the [Drexel University Writing Center](#) page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

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Recommended Plan Of Study

BS Behavioral Health Counseling
4 YR UG Co-op Concentration

Term 1	Credits
ENGL 101 Expository Writing and Reading	3.0
MATH 101 Introduction to Analysis I	4.0
UNIV 101 The Drexel Experience	1.0
Three (3) Humanities/Social Science electives	9.0
Term Credits	17.0

Term 2	Credits
ENGL 102 Persuasive Writing and Reading	3.0
MATH 102 Introduction to Analysis II	4.0
UNIV 101 The Drexel Experience	1.0
Two (2) Humanities/Social Science electives	6.0
Free elective	3.0
Term Credits	17.0

Term 3	Credits
BACS 200 Foundation of Behavioral Health Care	3.0
ENGL 103 Analytical Writing and Reading	3.0
Free elective	3.0
Two (2) Humanities/Social Science electives	6.0
Term Credits	15.0

Term 4	Credits
BACS 100 Life-Span Human Development	3.0
BACS 220 Counseling Theory and Practice	3.0
BACS 236 Psychiatric Rehabilitation Principles and Practices	3.0
CHEM 101 General Chemistry I	3.5
or	
BIO 107 Cells, Genetics & Physiology and the BIO 108 Lab	4.0
Humanities/Social Science elective	3.0
Term Credits	15.5

Term 5	Credits
BACS 230 Genetics and Mental Health	3.0
BACS 232 Ethics and Professional Responsibility	3.0
CS 161 Introduction to Computing	3.0
CHEM 102 General Chemistry II	4.5
or	
BIO 109 Biological Diversity, Ecology & Evolution and the BIO 110 Lab	4.0
Humanities/Social Science elective	3.0
Term Credits	16.5

Term 6	Credits
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	Credits
Free electives	12.0
Humanities/Social Science 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
Free elective	3.0
BACS Advanced Program elective (See degree requirements for list)	3.0
Humanities/Social Science elective	3.0
Term Credits	15.0
Term 9	Credits
BACS 310 Recovery and Relapse Prevention	3.0
BACS Advanced Program elective (See degree requirements for list)	3.0
Free electives	6.0
Humanities/Social Science elective	3.0
Term Credits	15.0
Term 10	Credits
BACS 320 Crisis and Brief Intervention	3.0
BACS Advanced Program elective (See degree requirements for list)	3.0
Free electives	9.0
Term Credits	15.0
Term 11	Credits
BACS 405 Family-Focused Interventions	3.0
BACS 490 Senior Research Project	3.0
BACS Advanced Program elective (See degree requirements for list)	3.0
Free elective	3.0
Term Credits	12.0
Term 12	Credits
BACS 312 Case Management Methods	3.0
BACS 401 Assessment/Treatment Planning	3.0
BACS 499 Readings in Behavioral Health	3.0
BACS Advanced Program elective (See degree requirements for list)	3.0
Term Credits	12.0
Total Credits (minimum)	180.0

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Recommended Plan Of Study

BS Behavioral Health Counseling
 4 YR UG No Co-op Concentration

Term 1	Credits
ENGL 101 Expository Writing and Reading	3.0
MATH 101 Introduction to Analysis I	4.0
UNIV 101 The Drexel Experience	1.0
Three (3) Humanities/Social Science electives	9.0
Term Credits	17.0

Term 2	Credits
ENGL 102 Persuasive Writing and Reading	3.0
MATH 102 Introduction to Analysis II	4.0
UNIV 101 The Drexel Experience	1.0
Two (2) Humanities/Social Science electives	6.0
Free elective	3.0
Term Credits	17.0

Term 3	Credits
BACS 200 Foundation of Behavioral Health Care	3.0
ENGL 103 Analytical Writing and Reading	3.0
Two (2) Humanities/Social Science electives	6.0
Free elective	3.0
Term Credits	15.0

Term 4	Credits
BACS 100 Life-Span Human Development	3.0
BACS 220 Counseling Theory and Practice	3.0
BACS 236 Psychiatric Rehabilitation Principles and Practices	3.0
CHEM 101 General Chemistry I	3.5
or	
BIO 107 Cells, Genetics & Physiology and BIO 108 Lab Course	4.0
Humanities/Social Science elective	3.0
Term Credits	15.5

Term 5	Credits
BACS 230 Genetics and Mental Health	3.0
BACS 232 Ethics and Prof Responsibility	3.0
CS 161 Introduction to Computing	3.0
CHEM 102 General Chemistry II	4.5
or	
BIO 109 Biological Diversity, Ecology & Evolution and BIO 110 Lab Course	4.0
Humanities/Social Science elective	3.0
Term Credits	16.5

Term 6	Credits
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	Credits
BACS 301 Group Counseling I	3.0
BACS 304 Cognitive-Behavioral Counseling I	3.0
Humanities/Social Science elective	3.0
Free elective	3.0
BACS Advanced Program elective (See degree requirements for list)	3.0
Term Credits	15.0
Term 8	Credits
BACS 310 Recovery and Relapse Prevention	3.0
BACS Advanced Program elective (See degree requirements for list)	3.0
Humanities/Social Science elective	3.0
Free electives	6.0
Term Credits	15.0
Term 9	Credits
BACS 312 Case Management Methods	3.0
Free electives	6.0
Humanities/Social Science elective	3.0
BACS Advanced Program elective (See degree requirements for list)	3.0
Term Credits	15.0
Term 10	Credits
BACS 320 Crisis and Brief Intervention	3.0
BACS Advanced Program elective (See degree requirements for list)	3.0
Free electives	9.0
Term Credits	15.0
Term 11	Credits
BACS 405 Family-Focused Interventions	3.0
BACS 490 Senior Research Project	3.0
BACS Advanced Program elective (See degree requirements for list)	3.0
Free elective	3.0
Term Credits	12.0
Term 12	Credits
BACS 401 Assessment/Treatment Planning	3.0
BACS 499 Readings in Behavioral Health	3.0
Free electives	6.0
Term Credits	12.0
Total Credits (minimum)	180.0

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COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Pathway to Health Professions: Health Sciences

About the Major

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, 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

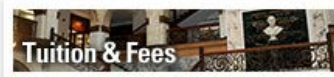
Graduates of the Pathway to Health Professions program may choose to enter the workforce in the field of clinical research. Clinical research is a rapidly expanding enterprise. There is a great need for trained individuals to fill positions on clinical research teams that are performing the research 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](#) 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, 2011/2012
General requirements

96.5 Credits

UNIV 101	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 and 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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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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ECON 240	Economics of Health Care Systems	4.0
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HSAD 210	Health Care Ethics	3.0
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HSAD 309	Advanced Health Care Ethics	3.0
PSY 101	General Psychology	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
3 Humanities and Social Sciences electives		9.0

Pathway to Health Professions Courses 70.0 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
STS 345	Statistics for Health Sciences	4.0
STS 350	Advanced Statistics for Clinical Sciences	4.0
6 Health Sciences electives*		22.0

*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 13.5 Credits

5 free electives		13.5.0
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Writing-Intensive Course Requirements

In order to graduate, all students 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 may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the [Writing Intensive Course List](#) on the [Drexel University Writing Center](#) page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



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Drexel University

CATALOG 2011-2012

Recommended Plan Of Study

BS Health Sciences

4 YR UG Co-op Concentration

Track "B"

Term 1	Credits
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 101 The Drexel Experience	1.0
Term Credits	15.0
Term 2	Credits
BIO 124 Evolution and 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 101 The Drexel Experience	1.0
Term Credits	17.0
Term 3	Credits
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
Term 4	Credits
ANAT 101 Anatomy & Physiology I	5.0
BIO 226 Microbiology for Health Prof'l	5.0
COM 310 Technical Communication	3.0
STS 345 Stats for the Health Sciences	4.0
Term Credits	17.0
Term 5	Credits
ANAT 102 Anatomy & Physiology II	5.0
HSCI 310 Introduction to Clinical Research	3.0
PSY 101 General Psychology I	3.0
STS 350 Adv Stats 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 210 Health-Care Ethics I	3.0
HSCI 313 Clinical Trials Protocols	3.0
Term Credits	14.0
Term 7	Credits

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
Term Credits		13.0

Term 8		Credits
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 (See degree requirements)	3.0
	Free elective	2.0
Term Credits		14.0

Term 9		Credits
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	3.0
Term Credits		15.0

Term 10		Credits
ECON 240	Economics of Health Care Systems	4.0
	Health electives (See degree requirements)	8.0
	Free elective	3.0
Term Credits		15.0

Term 11		Credits
SOC 125	Sociology of Aging	3.0
	Health elective (See degree requirements)	3.0
	Humanities/Social Science electives	6.0
	Free elective	2.5
Term Credits		14.5

Term 12		Credits
PSY 240	Abnormal Psychology	3.0
	Humanities/Social Science elective	3.0
	Health electives (See degree requirements)	8.0
Term Credits		14.0

Total Credits (minimum)	180.0
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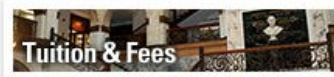
Health Sciences - Accelerated Career Entry (ACE) BSN Option

Bachelor of Science in Nursing Degree 214.5 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 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 only enter this accelerated program as freshmen. The accelerated HSCI-ACE Program is not available to transfer students.

<i>Freshman year</i>		
Fall Quarter		Credits
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 101	The Drexel Experience	1.0
Total credits		15.0
Winter Quarter		
BIO 124	Evolution and 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 101	The Drexel Experience	1.0
Total credits		16.0
Spring Quarter		
BIO 126	Physiology and Ecology	4.5
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		16.5

<i>Sophomore year</i>		
Fall Quarter		
ANAT 101	Anatomy & Physiology I	5.0
COM 310 WI	Technical Communication	3.0



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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 WI	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



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COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Pathway to Health Professions: BS/DPT Program

Bachelor of Science Degree in Health Sciences: 184.0 quarter credits

Degree requirements

Incoming students, 2011/2012

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](#) page.

General requirements	73.5 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

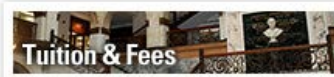
BIO 122 Cells and Genetics	4.5
BIO 124 Evolution and Organismal Diversity	4.5
BIO 126 Physiology and Ecology	4.5
BIO 226 Microbiology for Health Professionals	5.0

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



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Physics for Life Sciences

PHYS 152	Introductory Physics I	5.0
PHYS 153	Introductory Physics II	5.0

Computer Science course

CS 161	Introduction to Computing	3.0
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Other Humanities and Social Sciences courses **24.0 Credits**

COM 310 WI	Technical Communication	3.0
COM 320 WI	Science Writing	3.0
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
SOC 101	Introduction to Sociology	3.0
SOC 120	Sociology of the Family	3.0

Free Electives **4.5 Credits**

Free electives	4.5.
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Pathway to Health Professions Courses **55.0 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
STS 345	Statistics for Health Sciences	4.0
STS 350	Advanced Statistics for Clinical Sciences	4.0

*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.

1st Year DPT courses		38.0 Credits
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	PT Examination and 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 Rehab	2.0

Writing-Intensive Course Requirements

In order to graduate, all students 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 may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the [Writing Intensive Course List](#) on the [Drexel University Writing Center](#) page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



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Pathway to Health Professions: Health Sciences

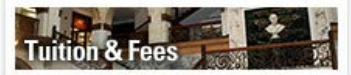
Dual and Accelerated Degree Opportunities

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 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](#) page.



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Health-Services Administration

Bachelor of Science Degree: 180.0 quarter credits

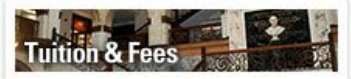
About the Major

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](#). A maximum of 90 semester credits can be transferred.

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: 180.0 quarter credits

Degree Requirements

Incoming students, 2011/2012*

*Students should check with the program for more details regarding additional course options.

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

Biology courses

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

Two course sequence in mathematics

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

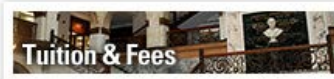
HSCI 204	Clinical Health Informatics	3.0
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Two course sequence in Drexel Experience

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



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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 Healthcare	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 and Management in Health-Services Administration	3.0
	9 Health Services Administration (HSAD) electives *	27.0

*HSAD 316 Health Care Across Cultures, HSAD 325 Issues in Health Care Systems, and HSAD 320 Managed Health Care are recommended electives.

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
COM 280	Public Relations	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 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

8 Free electives	25.0
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Writing-Intensive Course Requirements

In order to graduate, all students 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 may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the [Writing Intensive Course List](#) on the [Drexel University Writing Center](#) page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



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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 107	Cells, Genetics & Physiology	3.0
BIO 108	Cells, Genetics & Physiology Lab	1.0
ENGL 101	Expository Writing and Reading	3.0
SOC 101	Introduction to Sociology	3.0
UNIV 101	The Drexel Experience	1.0
Term Credits		11.0

Term 2		Credits
BIO 109	Biological Diversity, Ecology & Evolution	3.0
BIO 110	Biological Diversity, Ecology & Evolution Lab	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 101	The Drexel Experience	1.0
Term Credits		15.0

Term 3		Credits
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
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
SOC 215	Industrial Sociology	3.0
	Health Services Administration (HSAD) elective	3.0
	Free elective	3.0
Term Credits		15.0

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 331	Non-profits and Health Care	3.0
ORGB 300	Organizational Behavior	4.0
PSY 120	Developmental Psychology	3.0
	Free elective	3.0
	Health Services Administration (HSAD) electives	6.0
	Term Credits	19.0
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
PSY 240	Abnormal Psychology	3.0
SOC 125	Sociology of Aging	3.0
	Health Services Administration (HSAD) electives	6.0
	Free elective	3.0
	Term Credits	15.0
Term 11		Credits
HSAD 335	Health-Care Policy	3.0
SOC 235	Sociology of Health	3.0
	Health Services Administration (HSAD) electives	6.0
	Free elective	3.0
	Term Credits	15.0
Term 12		Credits
HSAD 317	Religious Views on Health Care	3.0
HSAD 340	Leadership in Health Services Administration	3.0
	Free elective	4.0
	Health Services Administration (HSAD) elective	3.0
	Term Credits	13.0
	Total Credits (minimum)	180.0

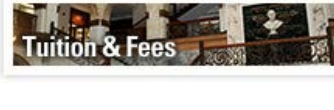
Health Services Administration BS/MPH Program

Accelerated Dual Degree BS/MPH in Health Services Administration/Masters of Public Health

The Health Services Administration Program and the Master of Public Health Program in the School of Public Health offer an accelerated dual degree option. Participants can earn both a BS degree in Health Services Administration and a Master of Public Health (MPH) degree in five years.

In this accelerated dual degree program, students participate in the Health Services Administration Program for three years (nine academic quarters and one co-operative experience). After three years of undergraduate study students begin their graduate studies in the Master of Public Health Program. Nineteen (19.0) quarter credits from the first year of graduate study will be credited toward completion of the students' Bachelor of Science degrees. After the successful completion of the first year of graduate study, students receive their BS. When students successfully complete the remainder of their graduate studies (typically one additional year), they will receive the MPH degree.

Students in this accelerated, dual degree program apply to the graduate [Masters of Public Health Program](#) during the fall quarter of their junior year. They then follow the same application



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procedures as other applicants, including being interviewed by the graduate faculty. (Any student who does not meet the entrance requirements of the graduate program will be able to complete the fourth year of the Health Services Administration Program and receive a BS degree.)

Students in the Master of Public Health Program complete 64.0 graduate quarter credits to meet the requirements of the master's program. The accelerated, dual degree program represents an acceleration of only the undergraduate portion of the student's curriculum.

For additional information, visit the College of Nursing and Health Professions [Accelerated Dual Degree Programs](#) page.



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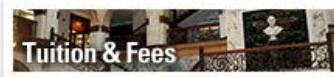
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Health Services Administration - Master of Public Health BS/MPH, 3 + 2 Program

"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.)

<i>First year</i>		Credits
Fall Quarter		
BIO 107	Cells, Genetics and Physiology	3.0
BIO 108	Cells, Genetics and Physiology Lab	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
Winter Quarter		
BIO 109	Biological Diversity, Ecology and Evolution	3.0
BIO 110	Biological Diversity, Ecology and Evolution Lab	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	3.0
UNIV 101	The Drexel Experience	1.0
Spring Quarter		
ACCT 115	Financial Accounting Foundations	4.0
HSAD 334	Management of Health Services	3.0
ENGL 103	Techniques of Analysis Evaluation	3.0
MATH 102	Introduction to Analysis II	4.0
PSY 120	Developmental Psychology	3.0
Summer Quarter		
	Vacation	



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Second year

Fall Quarter

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	Business Statistics I	4.0

Winter Quarter

ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	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
	Free elective	3.0

*HSAD 316 Health Care Across Cultures is a recommended elective.

Spring Quarter

COM 280	Public Relations	3.0
HSAD 210	Health-Care Ethics	3.0
HSAD 330	Financial Management in Healthcare	3.0
PHIL 105	Critical Reasoning	3.0
SOC 235	Sociology of Health	3.0
	Free elective	3.0

Summer Quarter

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

Fall Quarter

	Co-Op	
	Health Services Administration (HSAD) elective	3.0

Winter Quarter

Co-Op

Health Services Administration (HSAD) elective 3.0

Spring Quarter

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

*HSAD 325 Issues in Health Care Systems is a recommended elective.

Summer Quarter

HSAD 309 Advanced Health Care Ethics 3.0

HSAD 340 Leadership and Management in Health-Services Administration 3.0

SOC 115 Social Problems 3.0

Health Services Administration (HSAD) electives* 6.0

Free elective 3.0

*HSAD 320 Managed Health Care is a recommended elective.

Fourth year

19.0 Credits from the [Master of Public Health Program](#) 19.0



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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.

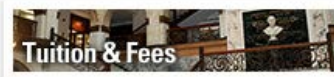
The Program provides many opportunities for working in small groups with other healthcare professionals. These group communications and activities give the student chances to share their own experiences and learn from the experiences of others. Within the stimulating college environment, the student 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, visit the [Invasive Cardiovascular Technology](#) program page.



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Invasive Cardiovascular Technology

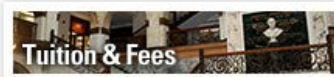
Admissions Requirements

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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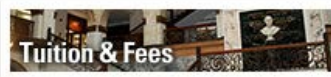
2-Course sequence in Social/Behavior Science

PSY 101	General Psychology	3.0
PSY 240 WI	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



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hours: (89.0 Credits)

Invasive Cardiovascular (ICVT) **95.0 Credits**
Required Courses

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



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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
Term Credits	14.0
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
Term Credits	15.0
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
Term Credits	17.0
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
Term Credits	16.0
Term 5	Credits
ICVT 406 Disease & Medical Emergencies	3.0
ICVT 407 Cardiovascular Review I	4.0
ICVT 422 Clinical Practicum III	10.0
Term Credits	17.0
Term 6	Credits
HSCI 302 Pharmacology II	3.0
ICVT 410 Cardiovascular Review II	5.0
ICVT 432 Clinical Practicum IV	8.0
Term Credits	16.0
Term 7	Credits
Term Credits	0.0
Term 8	Credits

Term Credits	0.0
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)

About the Major

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.



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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

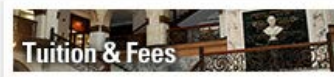
Co-op II: Acute and Chronic Health and Illness

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.



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Nursing

Bachelor of Science Degree: 182.0 credits

Required Courses

Incoming students, 2011/2012

General requirements

UNIV 101	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/Nutrition courses

BIO 226	Microbiology	5.0
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NFS 220	Normal & Lifespan Nutrition	4.0
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NFS 315	Nutrition in Chronic Disease	4.0
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Chemistry courses

CHEM 108	Health Chemistry I	3.0
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CHEM 103	General Chemistry III	5.0
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Humanities and Social Science courses

ECON 240	Economics for Health Care Systems	4.0
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PSY 101	General Psychology	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 125	Sociology of Aging*	3.0
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PHIL 251	Ethics	3.0
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or

PHIL 321	Biomedical Ethics	3.0
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Humanities elective	3.0
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Social science elective	3.0
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*Or acceptable alternative course, as determined by the student's Academic Advisor.

Mathematics/Computing/Data Analysis courses



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INFO 204	Nursing Informatics	3.0
MATH 108	Mathematics for Nursing Professionals	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 110	Essentials of Relationship-Based Professional Nursing Practice	4.0
NURS 112	Relationship-Based Professional Health Assessment and 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	Nursing Independent Study	1.0
NURS 388	Nursing Case Study Integration 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 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 480, NURS 481, NURS 482, or NURS

Free Electives

2 Free electives

6.0

Writing-Intensive Course Requirements

In order to graduate, all students 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 may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the [Writing Intensive Course List](#) on the [Drexel University Writing Center](#) page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



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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
Term Credits	15.0
Term 2	Credits
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
Term Credits	17.0
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 110 Essentials of Relationship-Based Professional Nursing	4.0
Term Credits	17.0
Term 4	Credits
INFO 204 Nursing Informatics	3.0
NURS 112 Relationship-Based Health Assessment and Promotion	5.0
NURS 200 Principles of Nursing Practice	6.0
Term Credits	14.0
Term 5	Credits
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
Term Credits	16.0
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
Term Credits	16.0
Term 7	Credits

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 Integration II	1.0
SOC 125	Sociology of Aging	3.0
Term Credits		17.0

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 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
Term Credits		13.0

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
Term Credits	15.0
Term 2	Credits
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
Term Credits	17.0
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 110 Essentials of Relationship-Based Professional Nursing	4.0
Term Credits	17.0
Term 4	Credits
INFO 204 Nursing Informatics	3.0
NURS 112 Relationship-Based Health Assessment and Promotion	5.0
NURS 200 Principles of Nursing Practice	6.0
Term Credits	14.0
Term 5	Credits
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
Term Credits	16.0
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
Term Credits	15.0
Term 7	Credits
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 Integration I	1.0
SOC 125	Sociology of Aging	3.0
Term Credits		17.0

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		
PHIL 251	Ethics	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
NURS 488	Nursing Case Study Integration II	1.0
	Free elective	3.0
Term Credits		13.0

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	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
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 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
Term Credits		13.0

Total Credits (minimum) 182.0

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Accelerated Career Entry (ACE) BSN Option

About the Program

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.



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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.



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Health Sciences - Accelerated Career Entry (ACE) 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 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 only enter this accelerated program as freshmen. The accelerated HSCI-ACE Program is not available to transfer students.

<i>Freshman year</i>		
Fall Quarter		Credits
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 101	The Drexel Experience	1.0
Total credits		15.0
Winter Quarter		
BIO 124	Evolution and 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 101	The Drexel Experience	1.0
Total credits		16.0
Spring Quarter		
BIO 126	Physiology and Ecology	4.5
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		16.5

<i>Sophomore year</i>		
Fall Quarter		
ANAT 101	Anatomy & Physiology I	5.0
COM 310 WI	Technical Communication	3.0



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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 WI	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



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COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

RN/BSN Completion Program

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](#) page.



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RN/BSN Completion Program

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

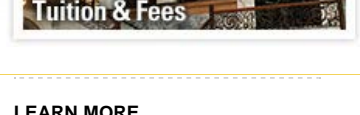
To be eligible for admission to the bachelor of science in nursing program, students must have completed 60 hours of college prerequisites, as follows, with a grade of C or better. Students may transfer in up to 90 credits. Remaining credits will be evaluated on an individual basis. To graduate, students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

The 60 required hours include:

Requirements	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.



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RN/BSN Completion Program

Requirements

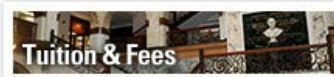
The College of Nursing and Health Professions faculty uses a variety of teaching and learning methods to facilitate the achievement of a student's personal objectives. Most courses incorporate e-mail and Internet assignments as well as a variety of innovative, active learning assignments. Courses are 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	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

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



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Level One Courses

NURS 325 WI	Critical Issues Shaping Professional Nursing	3.0
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NURS 340	Transformational Leadership/Management in Nursing	3.0
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NURS 346	Health Assessment and Promotion for Diverse and Vulnerable Populations	6.0
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NURS 404	Nursing Informatics	3.0
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Level Two Courses

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

NURS 460	Global Health and Policy Issues	6.0
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NURS 462	Science, Technology, and Health: A Nursing Perspective	6.0
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NURS 464	Senior Concentration in Nursing	3.0
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or

NURS 465	Senior Thesis in Nursing	
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RN to BSN to MSN Option

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



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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](#) page.

Students may not register for graduate courses until they are accepted in the program. Additional information is available on the [RN-BSN-MSN](#) 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.



Drexel University

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Nutrition and Foods

About the Degree

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, 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



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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](#) web page.



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COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Nutrition and Foods

Admission Requirements

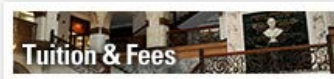
Drexel takes into consideration a number of criteria when determining admission, including the applicant's application, transcripts, courses in progress, two recommendations, standardized test scores, essay, and special interests (list of extracurricular activities, employment, etc.). Applicants to the 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](#) 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>.



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Nutrition and Foods

Bachelor of Science: 186.5 credits

Degree Requirements

Incoming students, 2011/2012

Required Courses

Communications		15.0 Credits
COM 230	Techniques of Speaking	3.0
COM 345	Intercultural Communication	3.0
or		
COM 310 WI	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		42.5 Credits
BIO 122	Cells and Genetics	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		12.0 Credits
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
or		
SOC 101	Introduction to Sociology	
PSY 101	General Psychology I	3.0
PSY 320 WI	Educational Psychology (WI)	3.0
or		
PSY 230	Psychology of Learning	



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PSY 342	Counseling Psychology	3.0
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Management and Statistics	14.0 Credits
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HRM 120	Principles of Food-Service Management	3.0
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HRMT 323	Principles of Human Resource Administration	4.0
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ORGB 300 WI	Organizational Behavior	4.0
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PSY 364	Computer-Assisted Data Analysis I	3.0
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Foods, Food Safety, and Food Production	18.0 Credits
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CULA 115	Culinary Fundamentals	3.0
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FDSC 154	Foods: Composition, Interactions and Formulations	4.0
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FDSC 270	Microbial Food Safety and Sanitation	4.0
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FDSC 350	Experimental Food: Product Development	3.0
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HRM 215	Commercial Food Production	4.0
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Nutrition and Food Sciences	56.0 Credits
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NFS 203	Nutrition II: Nutrition in the Life Cycle	4.0
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NFS 230	Intermediate Nutrition	4.0
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NFS 265	Professional Issues in Nutrition and Foods	3.0
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NFS 345	Foods and Nutrition of World Cultures	3.0
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NFS 365 WI	Nutrition Laboratory: Food and Nutrient Analysis	4.0
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NFS 370	Food Services Systems Management	4.0
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NFS 391	Community Nutrition	4.0
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NFS 415	Advanced Nutrition I: Macronutrients	4.0
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NFS 416	Advanced Nutrition II: Micronutrients	4.0
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NFS 431	Nutrition Counseling	4.0
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NFS 443	Medical Nutrition Therapy I	3.0
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NFS 444	Medical Nutrition Therapy II	3.0
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NFS 445	Medical Nutrition Therapy III	3.0
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NFS 475	Advanced Seminar in the Dietetics Profession	3.0
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NFS 494 WI	Senior Project I	2.0
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NFS 495	Senior Project II	2.0
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NFS 496	Senior Project III	2.0
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Mathematics **8.0 Credits**

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

Additional requirements **3.0 Credits**

UNIV 101	The Drexel Experience	3.0
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Electives **18.0 Credits**

Free electives	18.0
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Writing-Intensive Course Requirements

In order to graduate, all students 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 may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the [Writing Intensive Course List](#) on the [Drexel University Writing Center](#) page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



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Recommended Plan Of Study

BS Nutrition and Foods, 4-year Co-Op 4 YR UG Co-op Concentration

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 101	The Drexel Experience	1.0
Term Credits		16.0
Term 2		Credits
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 101	The Drexel Experience	2.0
Term Credits		18.0
Term 3		Credits
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
Term Credits		16.5
Term 4		Credits
BIO 153	Anatomy and Physiology I	4.0
HRM 120	Principles of Food-Service Management	3.0
NFS 215	Nutritional Chemistry	3.0
NFS 217	Nutrient Quality & Composition	1.0
NFS 230	Intermediate Nutrition	4.0
Term Credits		15.0
Term 5		Credits
BIO 154	Anatomy and Physiology II	4.0
CULA 115	Culinary Fundamentals	3.0
FDSC 270	Microbial Food Safety and Sanitation	4.0
NFS 203	Nutrition II: Nutrition in the Lifecycle	4.0
Term Credits		15.0
Term 6		Credits
BIO 155	Anatomy & Physiology III	4.0
HRM 215	Commercial Food Production	4.0
NFS 265	Professional Issues in Nutrition and Foods	3.0
PSY 101	General Psychology I	3.0
	Free elective	3.0
Term Credits		17.0

Term 7		Credits
COM 230	Techniques of Speaking	3.0
ORGB 300	Organizational Behavior	4.0
SOC 101	Introduction to Sociology	3.0
or		
ANTH 101	Introduction to Cultural Diversity	3.0
	Free elective	3.0
Term Credits		13.0

Term 8		Credits
FDSC 350	Experimental Foods: Product Development	3.0
NFS 415	Advanced Nutrition I: Macronutrition	4.0
PSY 320	Educational Psychology	3.0
PSY 364	Computer-Assisted Data Analysis I	3.0
COM 345	Intercultural Communication	3.0
or		
COM 310	Technical Communication	3.0
Term Credits		16.0

Term 9		Credits
HRMT 323	Principles of Human Resource Administration	4.0
NFS 365	Nutrition Laboratory: Food and Nutrient Analysis	4.0
NFS 416	Advanced Nutrition II: Micronutrients	4.0
PSY 342	Counseling Psychology	3.0
Term Credits		15.0

Term 10		Credits
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
Term Credits		15.0

Term 11		Credits
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
Term Credits		15.0

Term 12		Credits
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
Term Credits		15.0

Total Credits (minimum) 186.5

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Recommended Plan Of Study

BS Nutrition and Foods, 4-year Non-Co-op
4 YR UG No Co-op Concentration

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 101 The Drexel Experience	1.0
Term Credits	16.0
Term 2	Credits
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 101 The Drexel Experience	2.0
Term Credits	18.0
Term 3	Credits
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
Term Credits	16.5
Term 4	Credits
BIO 153 Anatomy and Physiology I	4.0
HRM 120 Principles of Food-Service Management	3.0
NFS 215 Nutritional Chemistry	3.0
NFS 217 Nutrient Quality & Composition	1.0
NFS 230 Intermediate Nutrition	4.0
Term Credits	15.0
Term 5	Credits
BIO 154 Anatomy and Physiology II	4.0
CULA 115 Culinary Fundamentals	3.0
FDSC 270 Microbial Food Safety and Sanitation	4.0
NFS 203 Nutrition II: Nutrition in the Lifecycle	4.0
Term Credits	15.0
Term 6	Credits
BIO 155 Anatomy & Physiology III	4.0
HRM 215 Commercial Food Production	4.0
NFS 265 Professional Issues in Nutrition and Foods	3.0
PSY 101 General Psychology I	3.0
Free elective	3.0
Term Credits	17.0

Term 7	Credits
FDSC 350 Experimental Foods: Product Development	3.0
NFS 415 Advanced Nutrition I: Macronutrition	4.0
PSY 320 Educational Psychology	3.0
PSY 364 Computer-Assisted Data Analysis I	3.0
Term Credits	13.0

Term 8	Credits
COM 230 Techniques of Speaking	3.0
NFS 365 Nutrition Laboratory: Food and Nutrient Analysis	4.0
NFS 416 Advanced Nutrition II: Micronutrients	4.0
ORGB 300 Organizational Behavior	4.0
Term Credits	15.0

Term 9	Credits
HRMT 323 Principles of Human Resource Administration	4.0
PSY 342 Counseling Psychology	3.0
ANTH 101 Introduction to Cultural Diversity	3.0
or	
SOC 101 Introduction to Sociology	3.0
COM 310 Technical Communication	3.0
or	
COM 345 Intercultural Communication	3.0
Free elective	3.0
Term Credits	16.0

Term 10	Credits
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
Term Credits	15.0

Term 11	Credits
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
Term Credits	15.0

Term 12	Credits
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
Term Credits	15.0

Total Credits (minimum) 186.5

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Radiologic Technology

About the Major

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

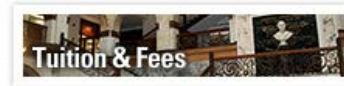
The program is accredited by The Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 North Wacker Drive, Suite 2850, Chicago, IL. 60606, .

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.



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COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Radiologic Technology

Associate in Science Degree: 104.0 quarter credits

Required Courses

Incoming students, 2011/2012

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 WI	Abnormal Psychology	3.0

Anatomy & Physiology courses

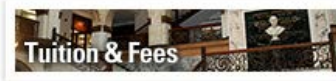
ANAT 101	Anatomy & Physiology I	5.0
ANAT 102	Anatomy & Physiology II	5.0
ANAT 103	Anatomy & Physiology III	5.0
ANAT 202	Sectional Anatomy	3.0

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



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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

Writing-Intensive Course Requirements

In order to graduate, all students 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 may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the [Writing Intensive Course List](#) on the [Drexel University Writing Center](#) page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



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Recommended Plan Of Study

AS Radiologic Technology Program

Term 1		Credits
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
Term Credits		14.0
Term 2		Credits
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
Term Credits		17.0
Term 3		Credits
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
Term Credits		17.0
Term 4		Credits
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
Term Credits		13.0
Term 5		Credits
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
Term Credits		16.0

Term 6		Credits
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
Term Credits		13.0
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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COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Addictions Counseling

24.0 quarter credits

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 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
BACS 367	Advanced Counseling Interventions	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



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COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Nutrition

25.0 quarter credits

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 WI	Nutrition I: Principles of Nutrition	4.0
or		
NFS 230	Intermediate Nutrition	4.0
NFS 203	Nutrition II: Nutrition in the Life Cycle	4.0
NFS 415	Advanced Nutrition I: Macronutrients and Energy	4.0
NFS 416	Advanced Nutrition II: Micronutrients and Control	4.0

Three of the following courses

FDSC 154	Foods: Composition, Interaction and Formulations	4.0
NFS 345	Foods and Nutrition of World Cultures	3.0
NFS 391	Community Nutrition	4.0
NFS 480	Special Topics in Nutrition	3.0-4.0



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Minor in Psychiatric Rehabilitation

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

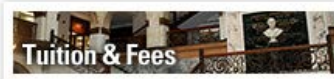
The minor requires completion of 24 credits, comprised of 15 credits in five required courses and 9 credits in three courses selected from a list of twelve electives. Students may elect to begin coursework in this minor at any point in their undergraduate education. It is strongly suggested that students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



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BACS 412	Group Counseling II	3.0
BACS 414	Co-occurring Disorders	3.0



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